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**CORN PRODUCTION INDICATORS REPORT:
APPENDIX I**



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Section I: World countries trend and risk

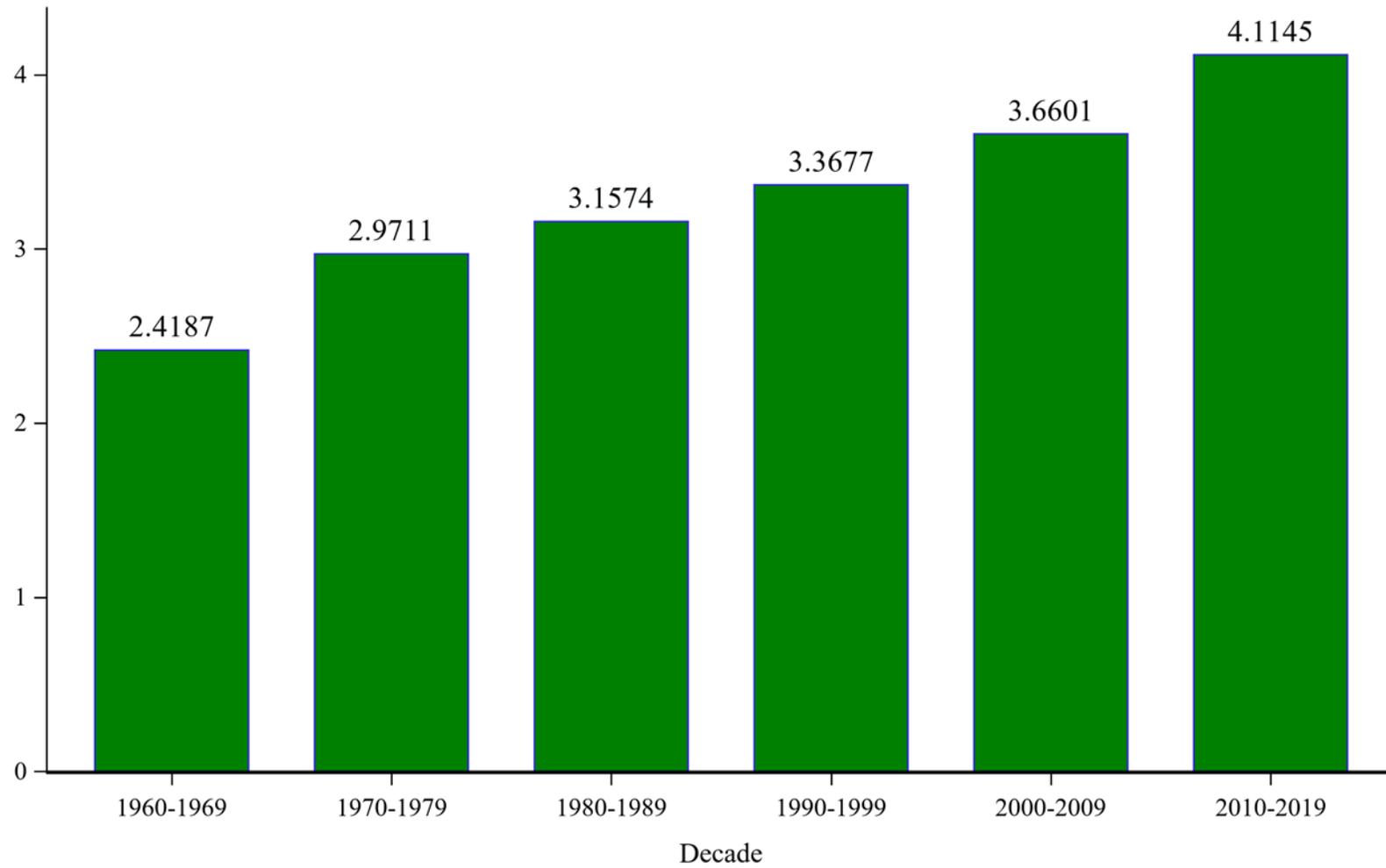
Figure 1: Global Harvested Acreage, Annual Trends



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Figure 2: Global Harvested Acreage, Decadal Changes



Group ■ Harvested (Bil. Acres)

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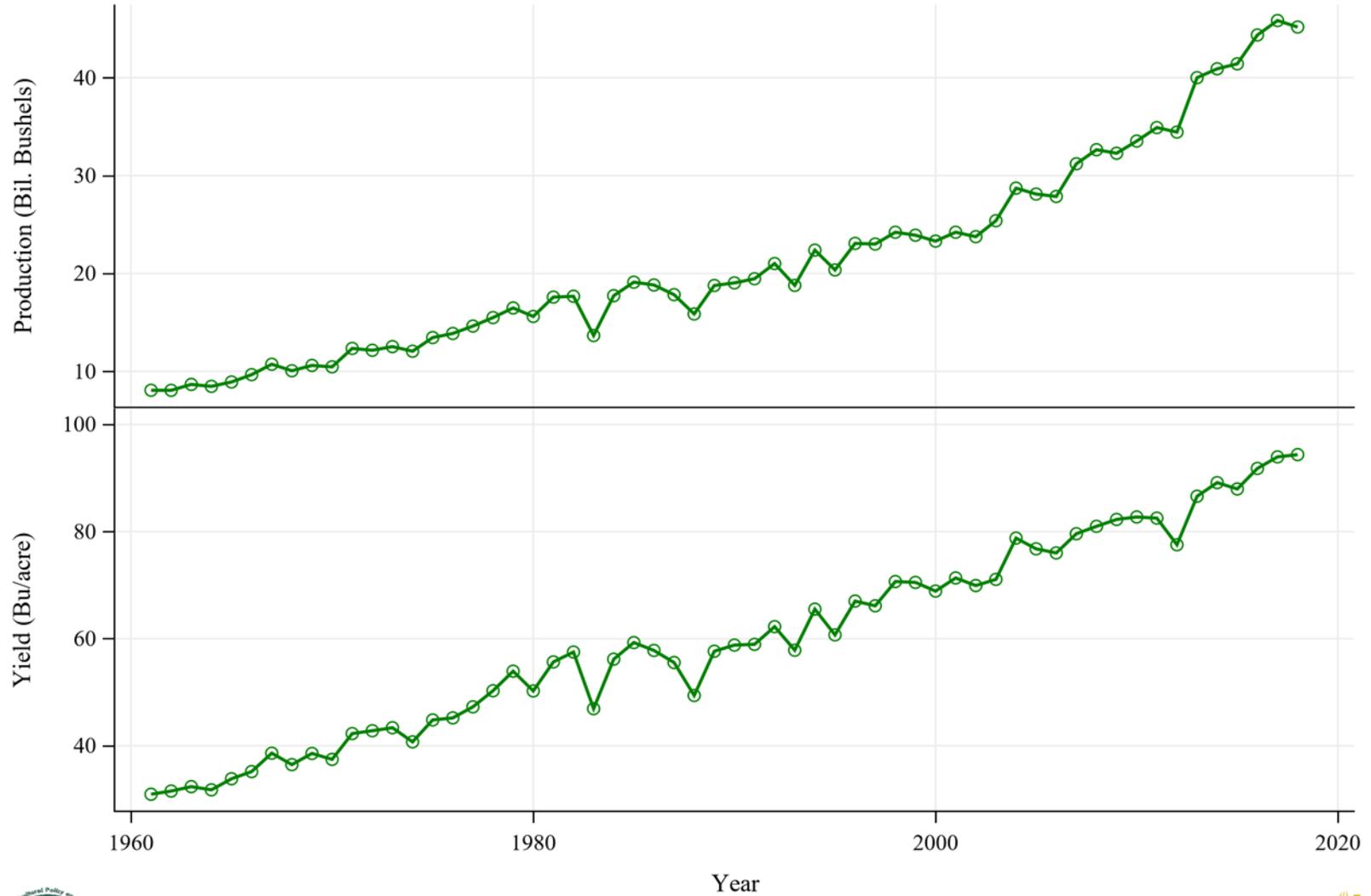


Table 1: Global Harvested Acreage, Descriptive Statistics

Decade	Harvested (Acres)				
	N	Sum	Mean	Risk	Coefficient of Variation
1960-1969	9	2,418,664,793	268,740,533	7,719,886	2.9
1970-1979	10	2,971,132,403	297,113,240	10,704,660	3.6
1980-1989	10	3,157,398,250	315,739,825	10,535,896	3.3
1990-1999	10	3,367,735,857	336,773,586	8,180,481	2.4
2000-2009	10	3,660,089,118	366,008,912	23,544,410	6.4
2010-2019	9	4,114,515,337	457,168,371	28,136,981	6.2

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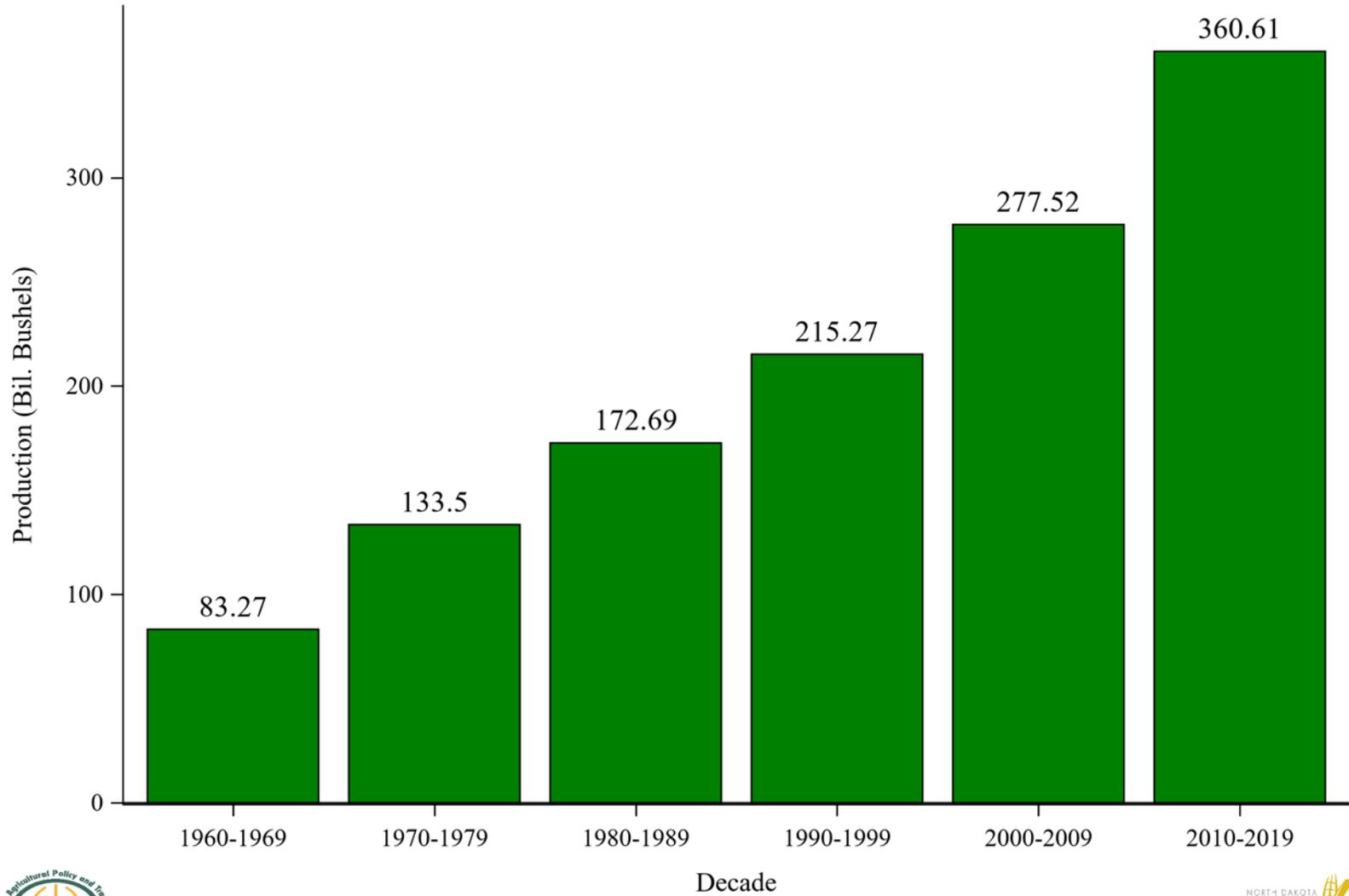
Figure 3: Global Production and Yield, Annual Trends



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Figure 4: Global Production, Decadal Changes



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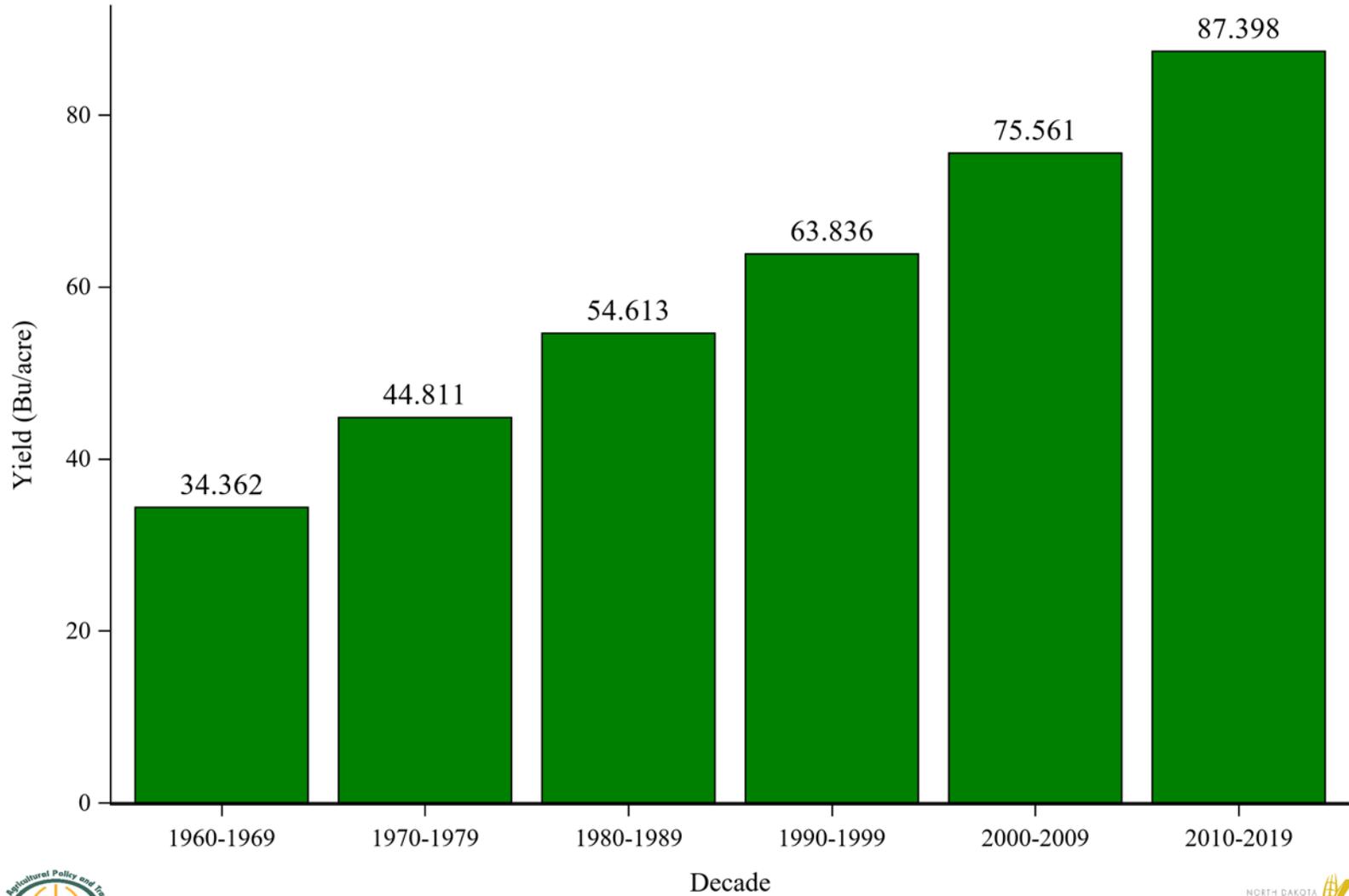


Table 2: Global Production, Descriptive Statistics

Decade	Production (Bushels)				
	N	Sum	Mean	Risk	Coefficient of Variation
1960-1969	9	83,270,169,560	9,252,241,062	1,044,248,559	11.3
1970-1979	10	133,495,397,882	13,349,539,788	1,807,323,075	13.5
1980-1989	10	172,691,852,452	17,269,185,245	1,718,990,102	10.0
1990-1999	10	215,267,218,999	21,526,721,900	2,049,706,361	9.5
2000-2009	10	277,524,330,863	27,752,433,086	3,515,956,134	12.7
2010-2019	9	360,609,849,739	40,067,761,082	4,762,492,828	11.9

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Figure 5: Global Yield, Decadal Changes



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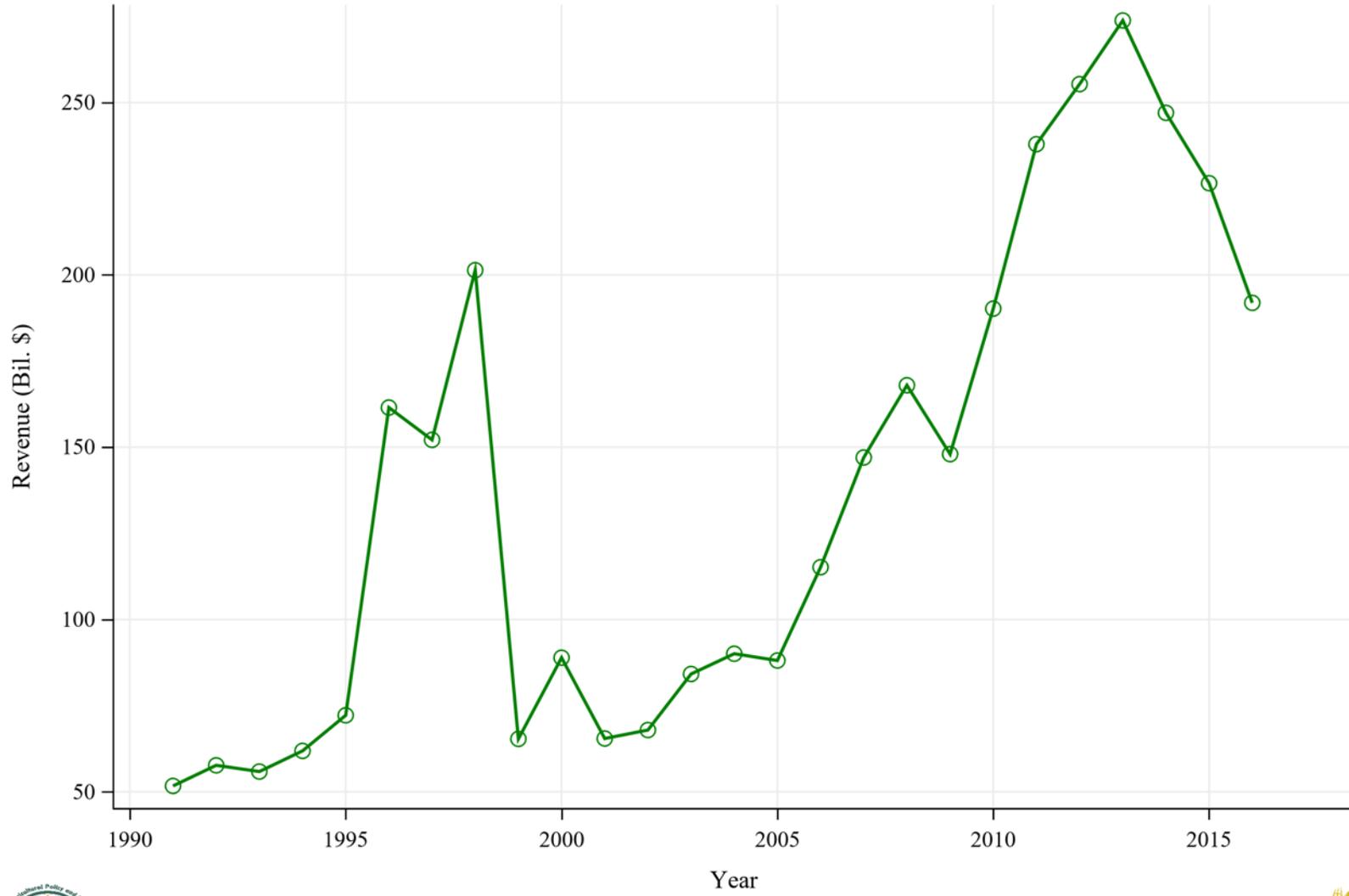


Table 3: Global Yield, Descriptive Statistics

Decade	Yield (Bu/acre)			
	N	Mean	Risk	Coefficient of Variation
1960-1969	9	34.36	2.99	8.7
1970-1979	10	44.81	4.74	10.6
1980-1989	10	54.61	4.21	7.7
1990-1999	10	63.84	4.80	7.5
2000-2009	10	75.56	4.91	6.5
2010-2019	9	87.40	5.68	6.5

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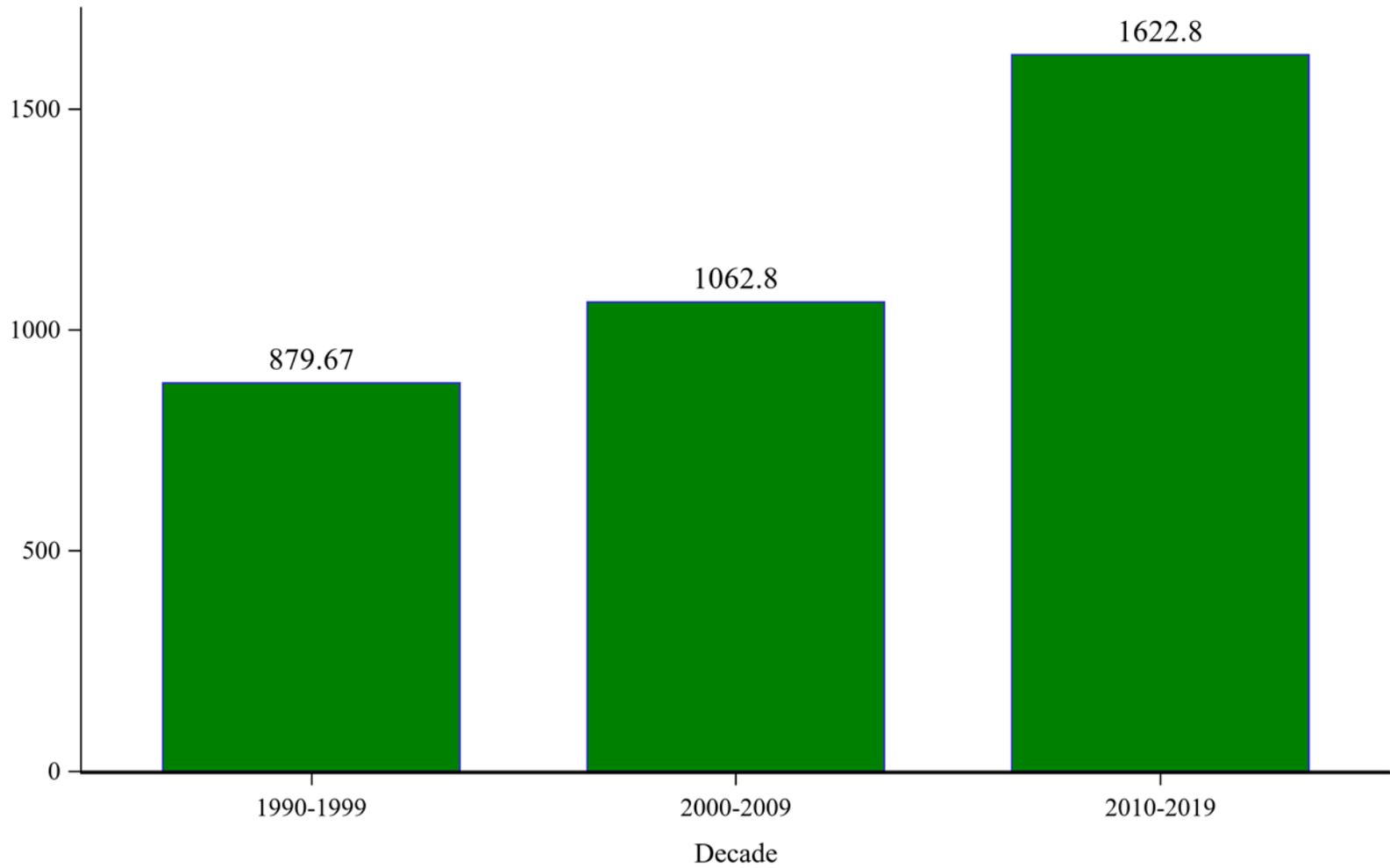
Figure 6: Global Revenue, Annual Trends



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Figure 7: Global Revenue, Decadal Changes



Group ■ Revenue (Bil. \$)

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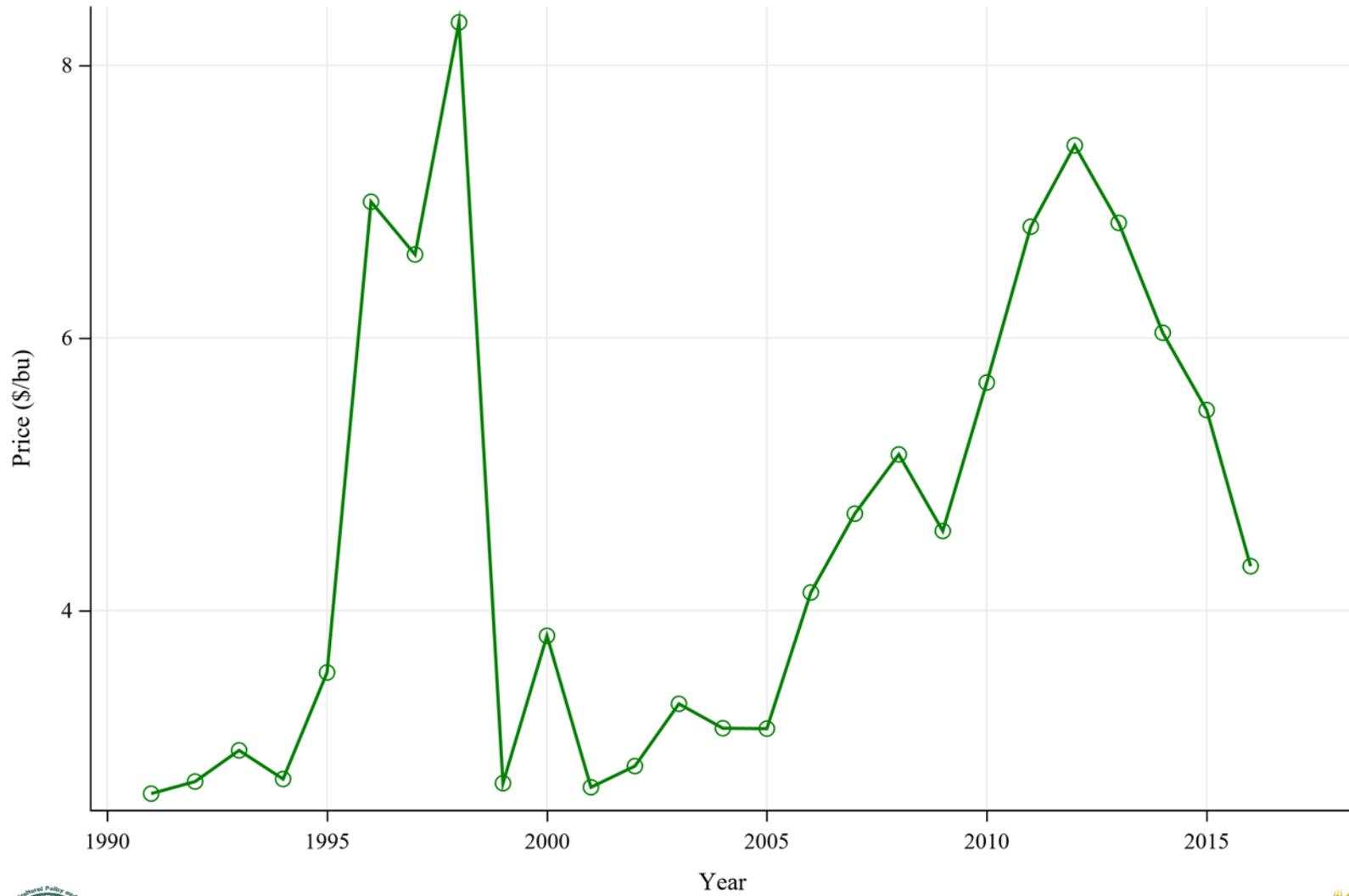


Table 4: Global Revenue, Descriptive Statistics

Decade	Revenue (\$)				
	N	Sum	Mean	Risk	Coefficient of Variation
1990-1999	9	879,667,493,642	97,740,832,627	57,258,050,235	58.6
2000-2009	10	1,062,774,516,968	106,277,451,697	36,216,261,958	34.1
2010-2019	7	1,622,849,975,166	231,835,710,738	31,467,976,394	13.6

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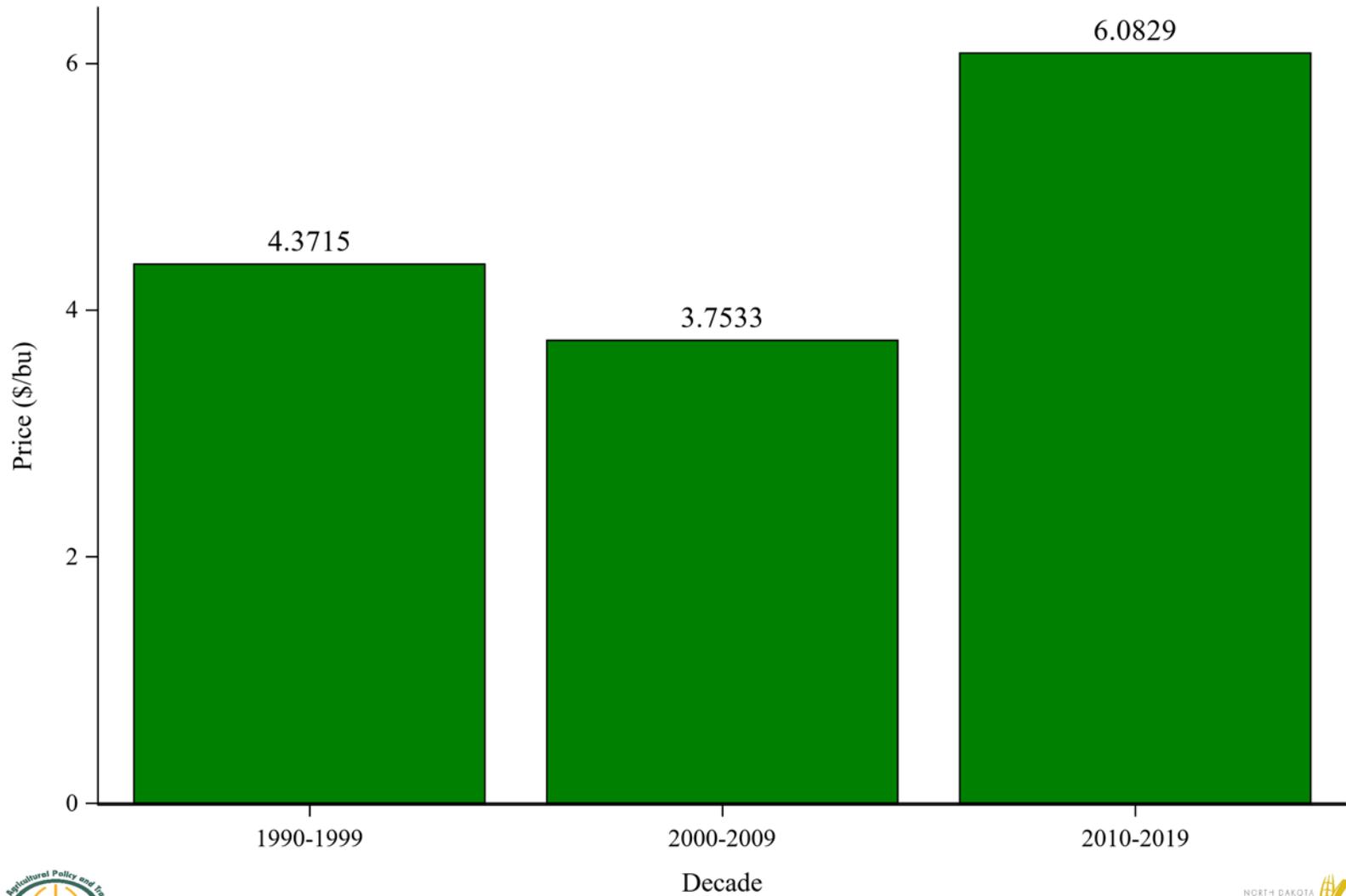
Figure 8: Global Price, Annual Trends



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Figure 9: Global Price, Decadal Changes



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Table 5: Global Price, Descriptive Statistics

Decade	Price (\$/bu)			
	N	Mean	Risk	Coefficient of Variation
1990-1999	9	4.37	2.26	51.8
2000-2009	10	3.75	0.85	22.7
2010-2019	7	6.08	1.04	17.1

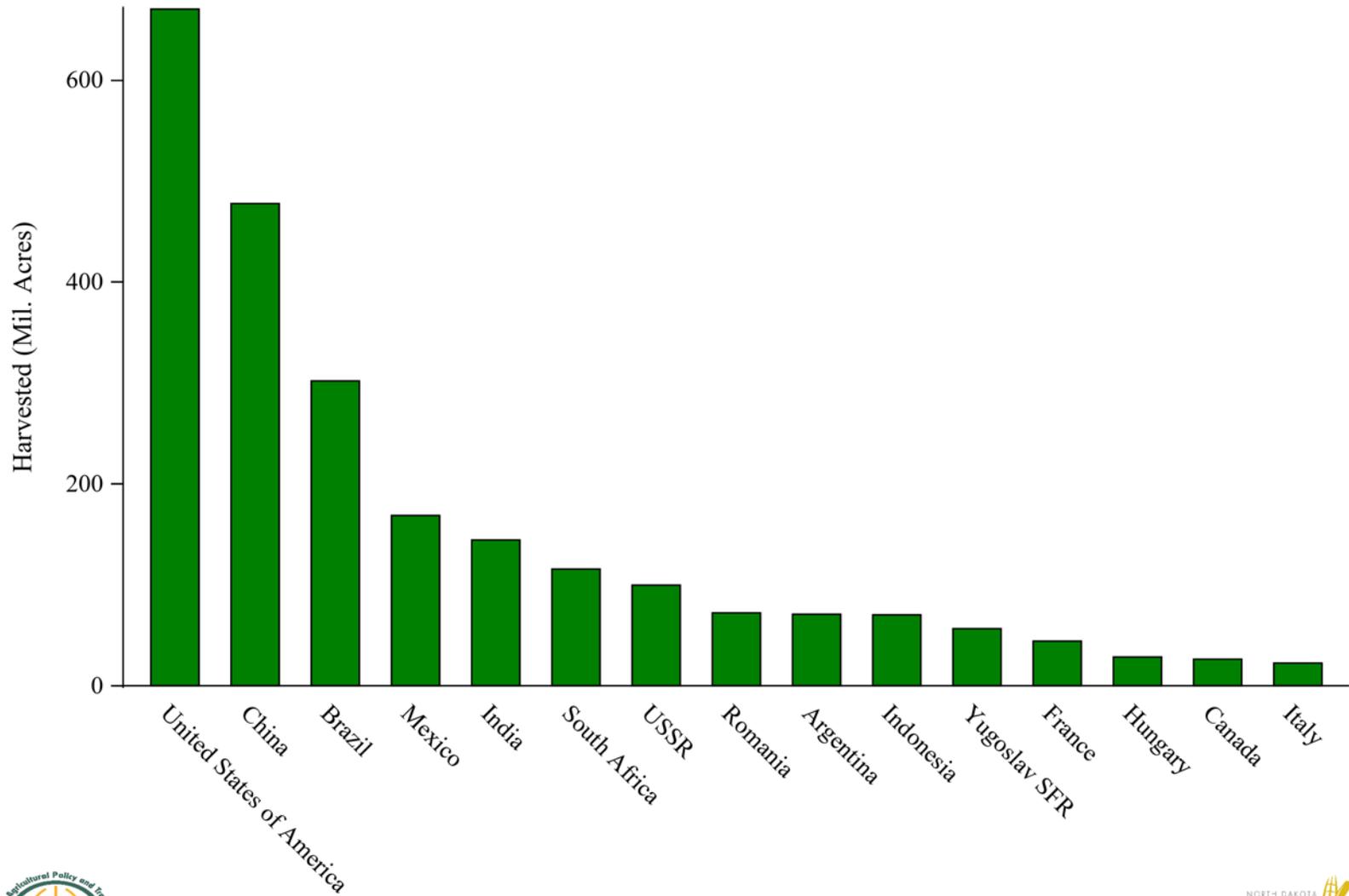
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Table 6: Global Production Indicators, Annual Trends

Year	Harvested (Acres)	Production (Bushels)	Revenue (\$)	Yield (Bu/acre)	Price (\$/bu)
2010	405,301,658	33,528,919,304	190,202,678,205	82.7	5.67
2011	423,049,876	34,906,841,113	237,934,722,359	82.5	6.82
2012	444,274,957	34,448,541,651	255,361,070,902	77.5	7.41
2013	461,981,192	40,006,044,341	273,825,272,131	86.6	6.84
2014	458,963,462	40,912,274,954	247,034,022,131	89.1	6.04
2015	470,922,172	41,420,150,617	226,606,386,732	88.0	5.47
2016	483,348,668	44,367,365,350	191,885,822,706	91.8	4.32
2017	487,948,018	45,840,131,954	.	93.9	.
2018	478,725,333	45,179,580,455	.	94.4	.

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Figure 10: Top 15 Countries Harvested Acreage, 1980 to 1989



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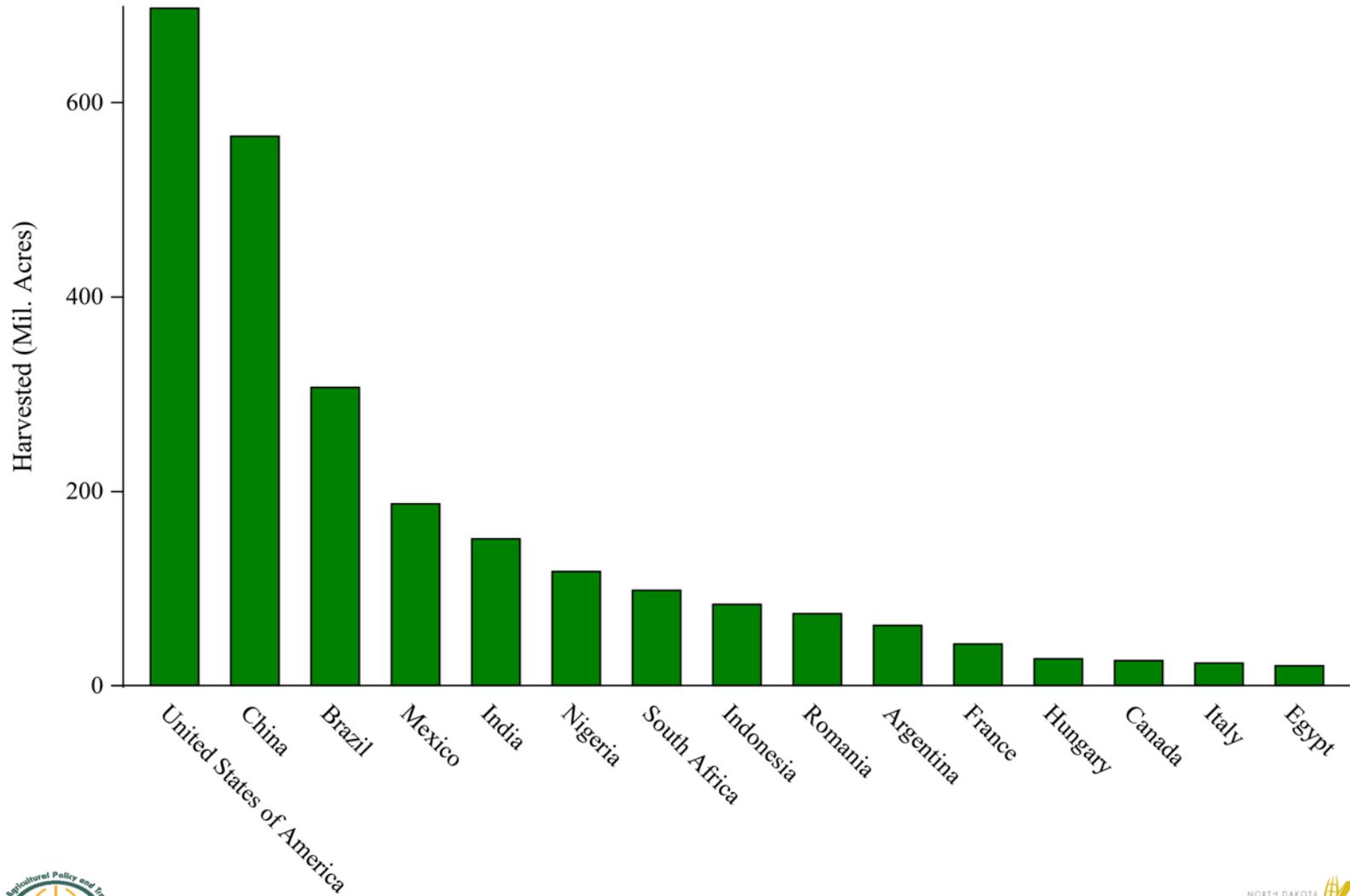


Table 7: Top 15 Countries Harvested Acreage, Descriptive Statistics for 1980 to 1989

Country	Harvested (Acres)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	670,225,936	67,022,594	8,153,304	12.2	21.2
China	10	477,620,381	47,762,038	2,222,645	4.7	15.1
Brazil	10	301,899,234	30,189,923	2,157,249	7.1	9.56
Mexico	10	168,588,392	16,858,839	1,528,623	9.1	5.34
India	10	144,337,243	14,433,724	316,805	2.2	4.57
South Africa	10	115,541,356	11,554,136	495,183	4.3	3.66
USSR	10	99,617,910	9,961,791	1,198,035	12.0	3.15
Romania	10	72,163,548	7,216,355	530,501	7.4	2.28
Argentina	10	70,773,343	7,077,334	1,299,509	18.4	2.24
Indonesia	10	70,174,012	7,017,401	955,616	13.6	2.22
Yugoslav SFR	10	56,509,370	5,650,937	158,540	2.8	1.79
France	10	44,177,679	4,417,768	351,199	7.9	1.40
Hungary	10	28,443,439	2,844,344	117,201	4.1	0.90
Canada	10	26,264,296	2,626,430	159,288	6.1	0.83
Italy	10	22,399,888	2,239,989	207,906	9.3	0.71

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Figure 11: Top 15 Countries Harvested Acreage, 1990 to 1999



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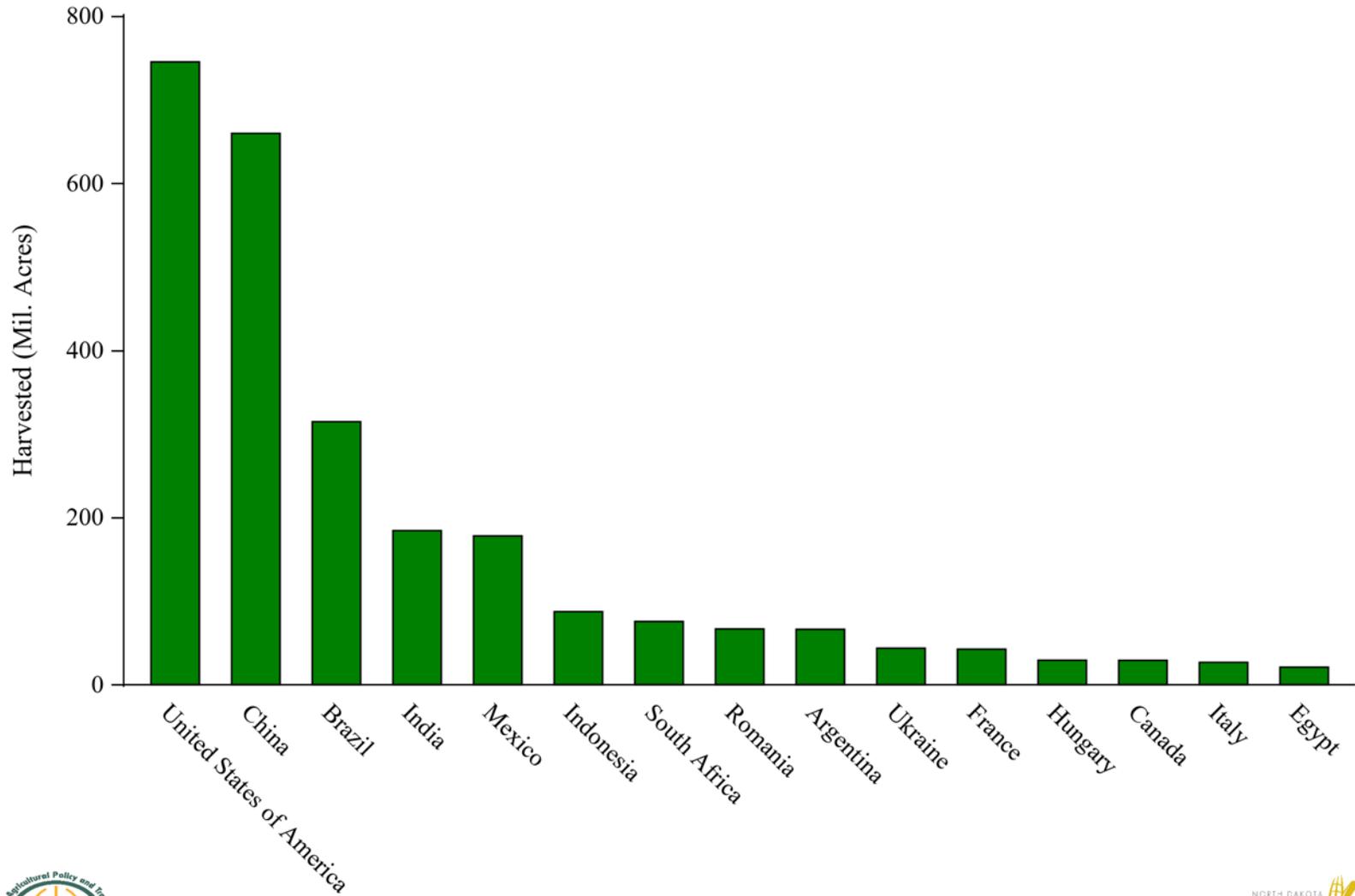


Table 8: Top 15 Countries Harvested Acreage, Descriptive Statistics for 1990 to 1999

Country	Harvested (Acres)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	696,905,413	69,690,541	3,563,772	5.1	20.7
China	10	565,198,146	56,519,815	4,705,675	8.3	16.8
Brazil	10	306,710,005	30,671,001	2,730,738	8.9	9.10
Mexico	10	186,920,472	18,692,047	1,072,337	5.7	5.55
India	10	150,938,653	15,093,865	483,593	3.2	4.48
Nigeria	10	117,267,137	11,726,714	1,810,941	15.4	3.48
South Africa	10	97,920,775	9,792,078	945,914	9.7	2.91
Indonesia	10	83,487,590	8,348,759	831,412	10.0	2.48
Romania	10	73,926,257	7,392,626	678,687	9.2	2.19
Argentina	10	61,800,503	6,180,050	1,321,490	21.4	1.83
France	10	42,716,429	4,271,643	237,297	5.6	1.27
Hungary	10	27,474,730	2,747,473	183,260	6.7	0.82
Canada	10	25,610,456	2,561,046	213,704	8.3	0.76
Italy	10	23,024,184	2,302,418	216,921	9.4	0.68
Egypt	10	20,280,434	2,028,043	119,277	5.9	0.60

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Figure 12: Top 15 Countries Harvested Acreage, 2000 to 2009



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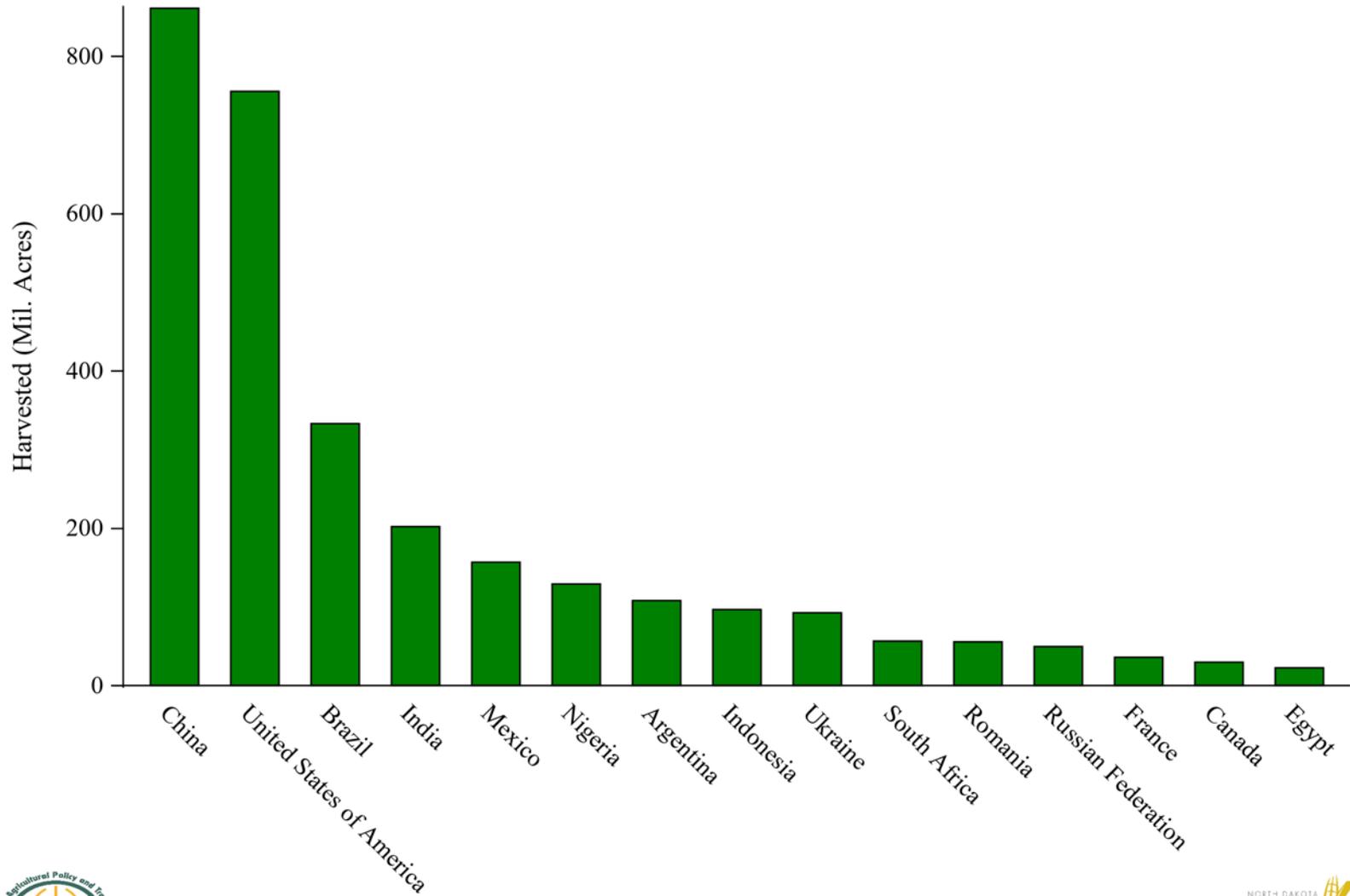


Table 9: Top 15 Countries Harvested Acreage, Descriptive Statistics for 2000 to 2009

Country	Harvested (Acres)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	745,454,874	74,545,487	5,562,323	7.5	20.4
China	10	659,925,065	65,992,506	7,025,847	10.6	18.0
Brazil	10	314,792,217	31,479,222	2,363,707	7.5	8.60
India	10	184,431,265	18,443,126	1,642,338	8.9	5.04
Mexico	10	178,115,804	17,811,580	1,188,691	6.7	4.87
Indonesia	10	87,460,944	8,746,094	805,557	9.2	2.39
South Africa	10	75,671,505	7,567,151	1,502,149	19.9	2.07
Romania	10	66,734,605	6,673,460	798,362	12.0	1.82
Argentina	10	66,273,082	6,627,308	913,424	13.8	1.81
Ukraine	10	43,714,110	4,371,411	1,138,225	26.0	1.19
France	10	42,526,170	4,252,617	321,778	7.6	1.16
Hungary	10	29,286,694	2,928,669	116,277	4.0	0.80
Canada	10	29,110,699	2,911,070	257,643	8.9	0.80
Italy	10	26,754,142	2,675,414	202,019	7.6	0.73
Egypt	10	20,983,657	2,098,366	172,546	8.2	0.57

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Figure 13: Top 15 Countries Harvested Acreage, 2010 to 2019



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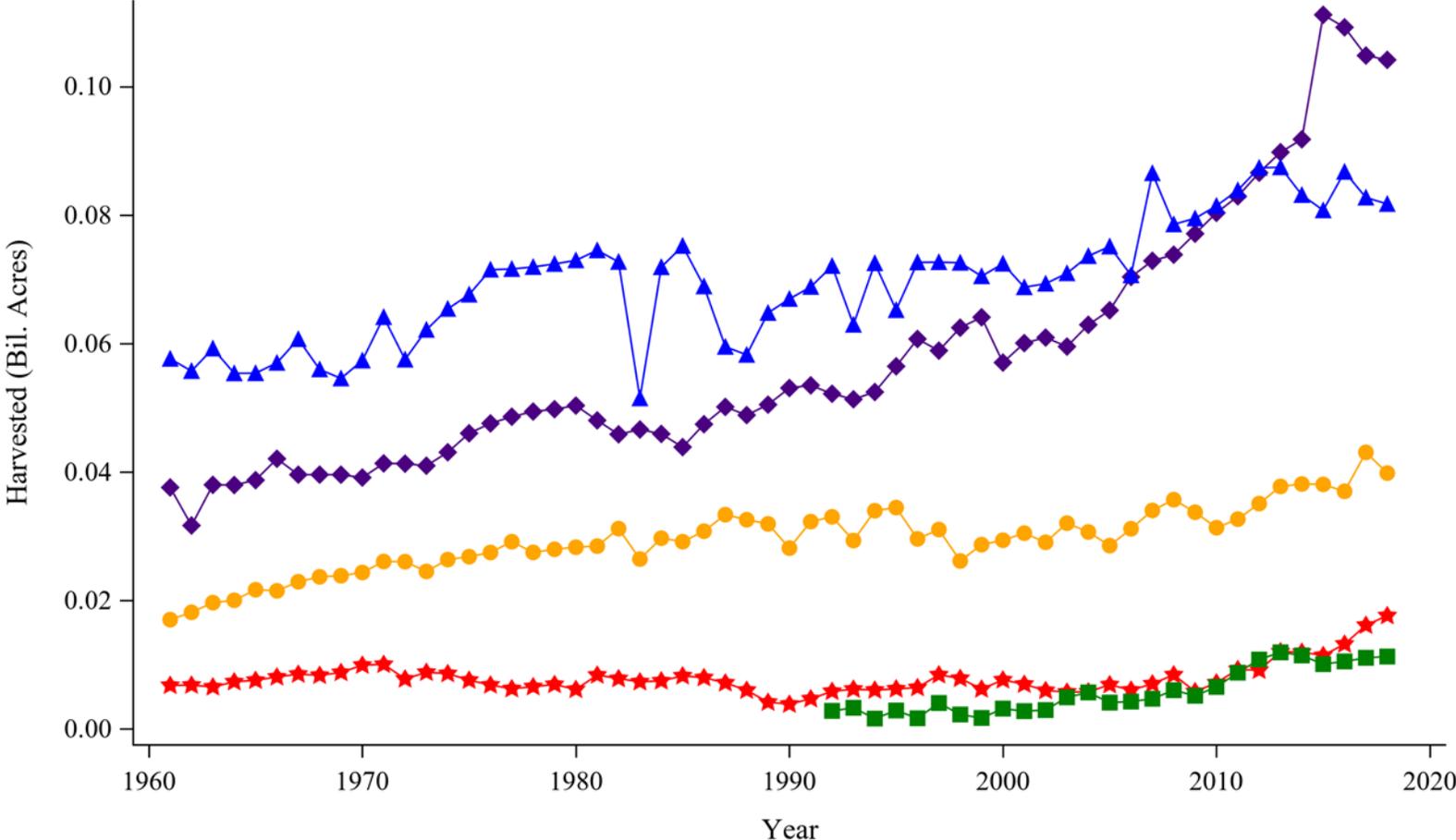


Table 10: Top 15 Countries Harvested Acreage, Descriptive Statistics for 2010 to 2019

Country	Harvested (Acres)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
China	9	860,930,092	95,658,899	11,780,009	12.3	20.9
United States of America	9	755,253,971	83,917,108	2,628,883	3.1	18.4
Brazil	9	332,936,482	36,992,942	3,578,238	9.7	8.09
India	9	201,986,592	22,442,955	1,076,061	4.8	4.91
Mexico	9	156,776,360	17,419,596	1,024,537	5.9	3.81
Nigeria	9	129,015,080	14,335,009	2,164,830	15.1	3.14
Argentina	9	107,963,622	11,995,958	3,348,657	27.9	2.62
Indonesia	9	96,513,656	10,723,740	1,847,903	17.2	2.35
Ukraine	9	92,411,339	10,267,927	1,670,294	16.3	2.25
South Africa	9	56,413,948	6,268,216	674,324	10.8	1.37
Romania	9	55,466,444	6,162,938	436,887	7.1	1.35
Russian Federation	9	49,450,324	5,494,480	1,465,187	26.7	1.20
France	9	35,819,160	3,979,907	396,638	10.0	0.87
Canada	9	29,642,222	3,293,580	262,113	8.0	0.72
Egypt	9	22,459,149	2,495,461	162,769	6.5	0.55

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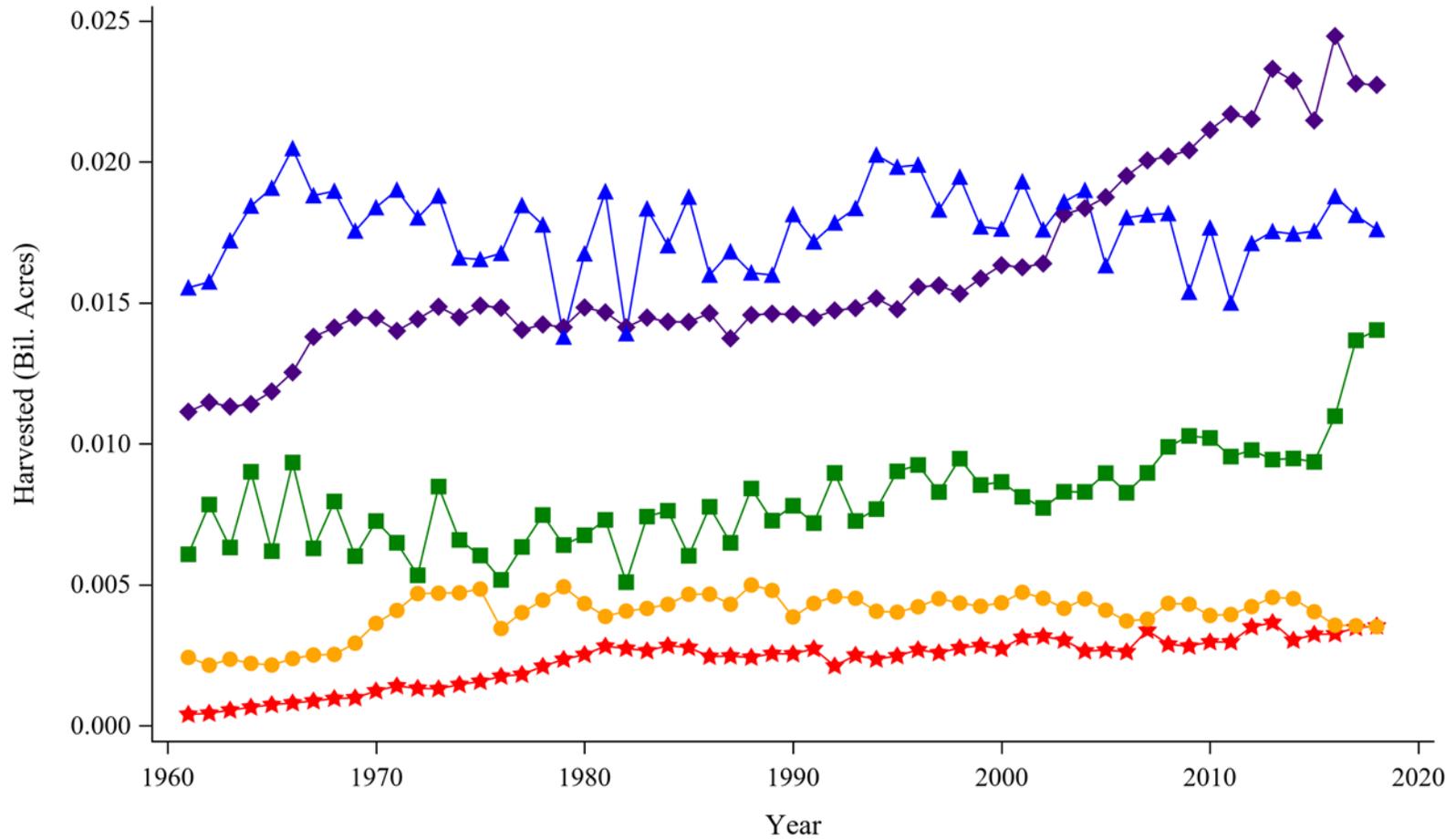
Figure 14: Top 5 Countries Harvested Acreage, Annual Trends



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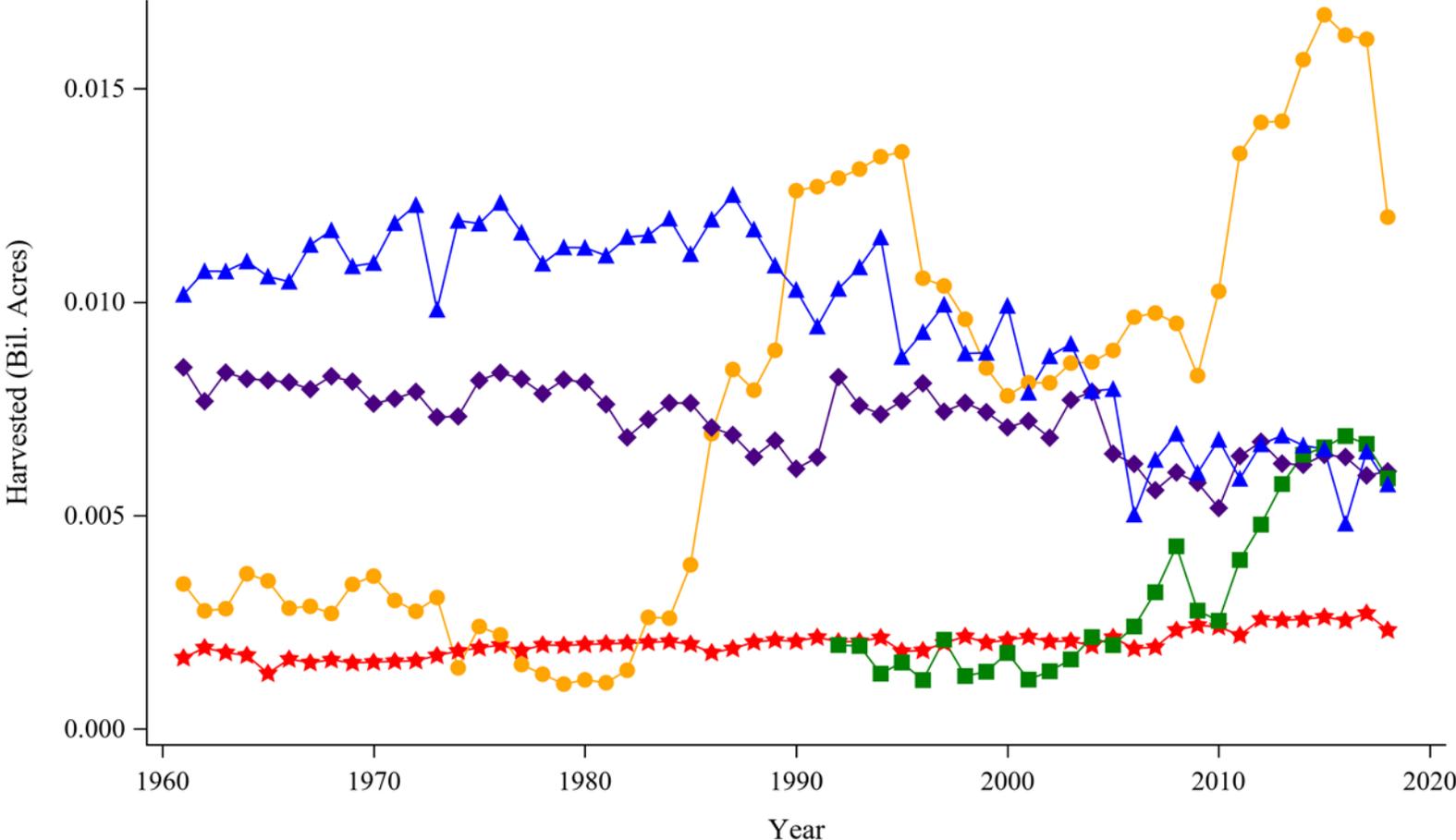
Figure 15: Top 6 to 10 Countries Harvested Acreage, Annual Trends



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Figure 16: Top 11 to 15 Countries Harvested Acreage, Annual Trends



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Table 11: Top 15 Countries Harvested Acreage, Annual Trends

Country	Harvested (Acres)								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States of America	81,446,747	83,879,768	87,365,801	87,451,819	83,136,772	80,749,738	86,748,805	82,733,769	81,740,753
China	80,353,574	82,928,102	86,601,567	89,796,502	91,800,484	111,186,743	109,241,021	104,845,115	104,176,985
Brazil	31,330,134	32,664,543	35,085,194	37,756,784	38,135,490	38,071,821	36,992,859	43,063,497	39,836,160
Argentina	7,176,016	9,261,095	9,133,742	12,018,695	11,951,616	11,433,252	13,211,699	16,137,620	17,639,887
Ukraine	6,542,352	8,756,660	10,803,183	11,927,511	11,433,301	10,090,533	10,507,399	11,072,034	11,278,366
India	21,135,385	21,695,819	21,522,846	23,302,002	22,876,981	21,473,425	24,463,395	22,783,081	22,733,660
Mexico	17,663,177	14,997,030	17,109,303	17,533,657	17,446,293	17,543,773	18,775,495	18,107,061	17,600,573
Indonesia	10,209,578	9,549,847	9,779,415	9,443,127	9,481,466	9,358,773	10,982,258	13,672,737	14,036,454
France	3,910,998	3,945,553	4,225,337	4,555,324	4,509,965	4,045,309	3,565,243	3,547,684	3,513,747
Canada	2,972,426	2,969,461	3,503,702	3,658,142	3,030,990	3,241,276	3,256,103	3,474,791	3,535,331
South Africa	6,775,619	5,862,072	6,669,858	6,872,484	6,642,677	6,555,325	4,810,517	6,495,402	5,729,994
Romania	5,174,994	6,392,858	6,726,643	6,216,028	6,188,545	6,421,352	6,371,659	5,938,670	6,035,695
Russian Federation	2,533,274	3,960,127	4,787,763	5,737,432	6,423,571	6,597,849	6,862,153	6,677,827	5,870,328
Nigeria	10,253,152	13,483,383	14,211,750	14,239,920	15,682,645	16,731,947	16,258,748	16,160,667	11,992,868
Egypt	2,393,259	2,195,105	2,573,216	2,546,019	2,568,016	2,621,774	2,539,454	2,709,951	2,312,354

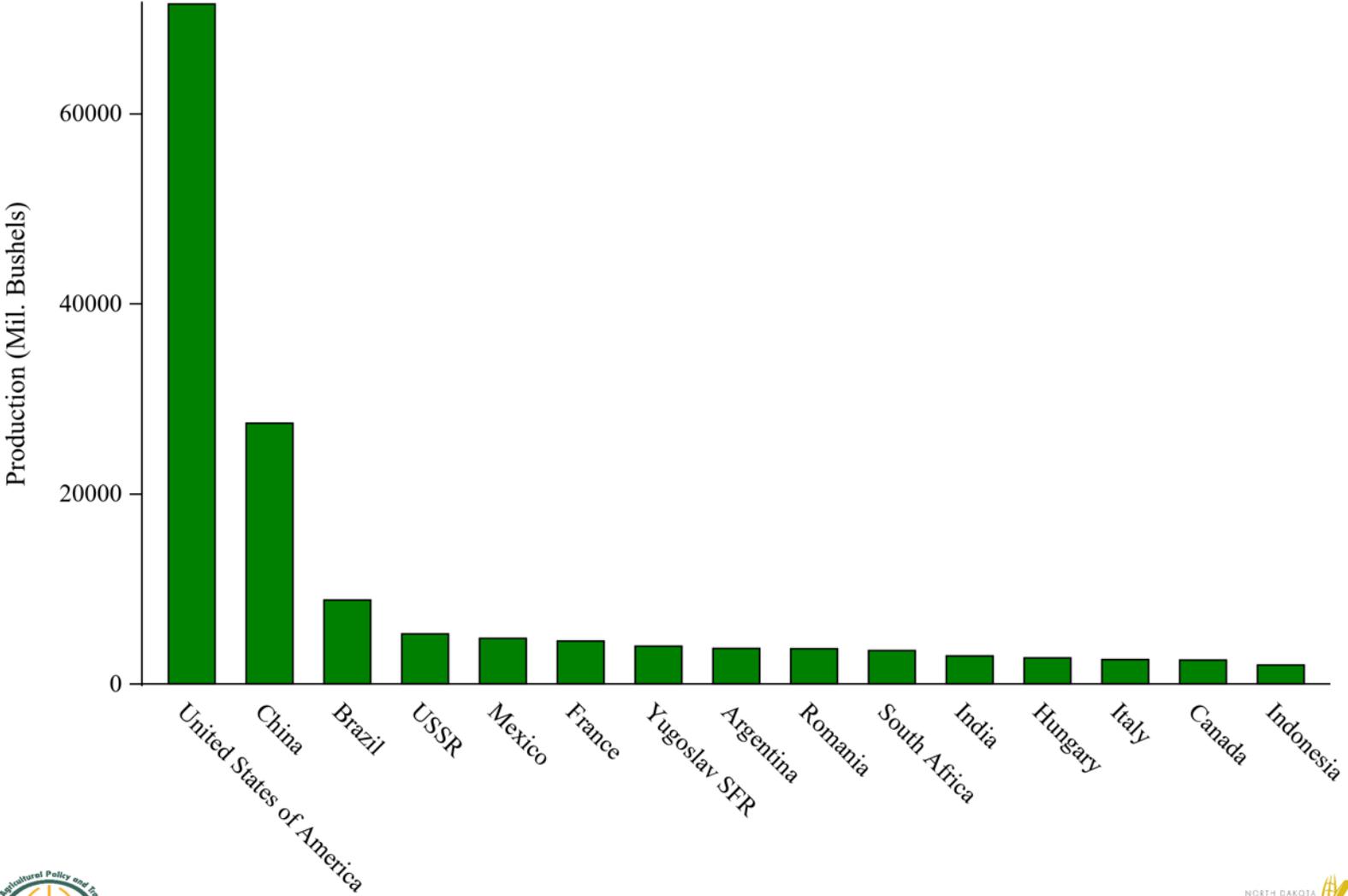
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Table 12: Top 15 Countries Harvested Acreage Share, Annual Trends

Country	Share(percentages)								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States of America	20.09	19.82	19.66	18.93	18.11	17.14	17.94	16.95	17.07
China	19.82	19.60	19.49	19.43	20.00	23.61	22.60	21.48	21.76
Brazil	7.73	7.72	7.90	8.17	8.31	8.08	7.65	8.82	8.32
Argentina	1.77	2.19	2.06	2.60	2.60	2.43	2.73	3.31	3.68
Ukraine	1.61	2.07	2.43	2.58	2.49	2.14	2.17	2.27	2.36
India	5.21	5.13	4.84	5.04	4.98	4.56	5.06	4.67	4.75
Mexico	4.36	3.54	3.85	3.79	3.80	3.72	3.88	3.71	3.68
Indonesia	2.52	2.26	2.20	2.04	2.07	1.99	2.27	2.80	2.93
France	0.96	0.93	0.95	0.99	0.98	0.86	0.74	0.73	0.73
Canada	0.73	0.70	0.79	0.79	0.66	0.69	0.67	0.71	0.74
South Africa	1.67	1.39	1.50	1.49	1.45	1.39	1.00	1.33	1.20
Romania	1.28	1.51	1.51	1.35	1.35	1.36	1.32	1.22	1.26
Russian Federation	0.62	0.94	1.08	1.24	1.40	1.40	1.42	1.37	1.23
Nigeria	2.53	3.19	3.20	3.08	3.42	3.55	3.36	3.31	2.50
Egypt	0.59	0.52	0.58	0.55	0.56	0.56	0.53	0.56	0.48

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Figure 17: Top 15 Countries Production, 1980 to 1989



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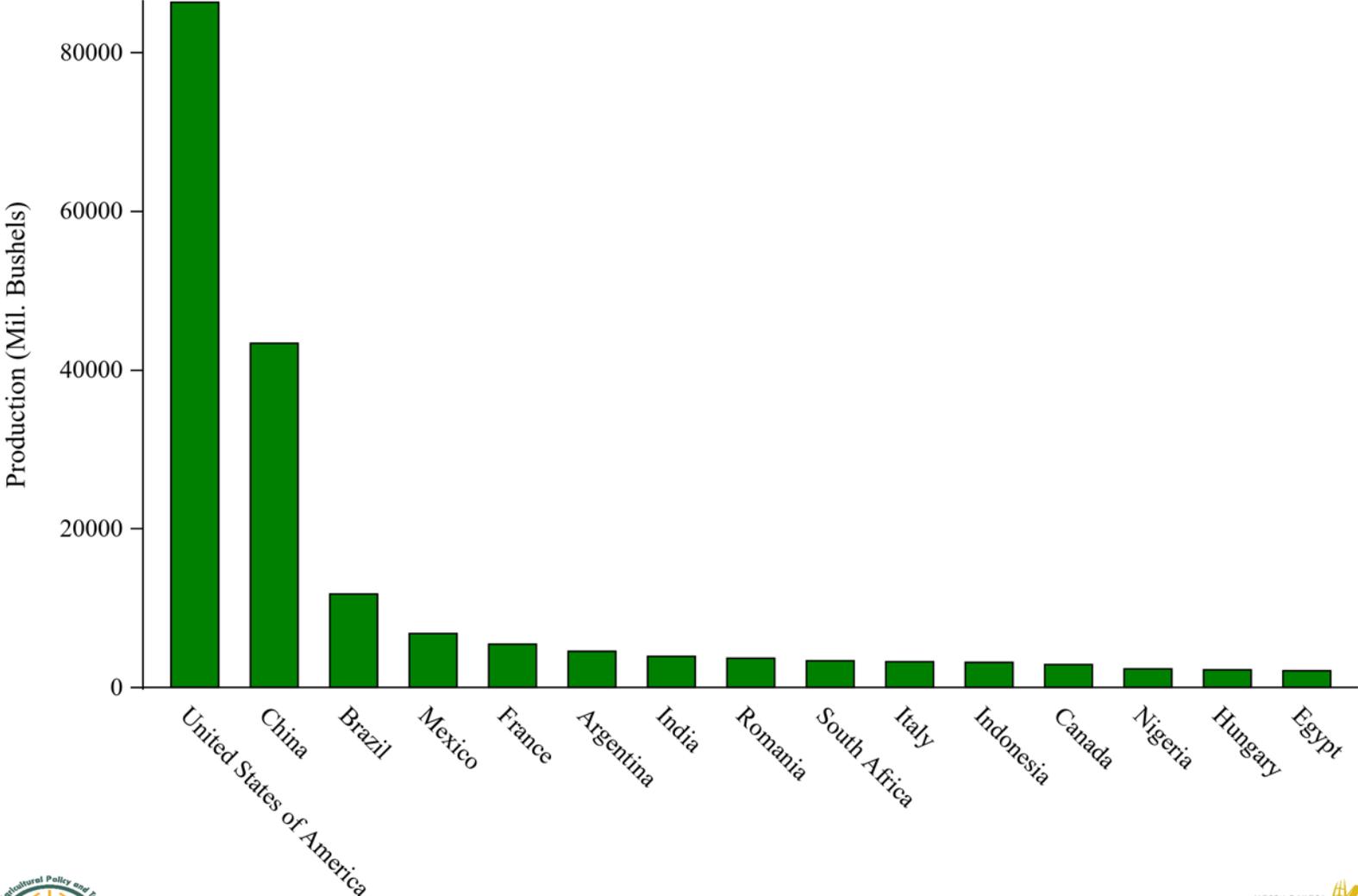


Table 13: Top 15 Countries Production, Descriptive Statistics for 1980 to 1989

Country	Production (Bushels)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	71,532,050,940	7,153,205,094	1,517,288,589	21.2	41.4
China	10	27,426,543,219	2,742,654,322	306,008,431	11.2	15.9
Brazil	10	8,814,979,741	881,497,974	107,393,662	12.2	5.10
USSR	10	5,255,076,848	525,507,685	90,511,461	17.2	3.04
Mexico	10	4,788,101,230	478,810,123	54,206,898	11.3	2.77
France	10	4,505,821,135	450,582,114	70,493,391	15.6	2.61
Yugoslav SFR	10	3,964,209,537	396,420,954	54,587,458	13.8	2.29
Argentina	10	3,730,118,000	373,011,800	97,546,749	26.2	2.16
Romania	10	3,696,529,222	369,652,922	70,408,594	19.0	2.14
South Africa	10	3,502,728,432	350,272,843	126,554,894	36.1	2.03
India	10	2,937,018,146	293,701,815	44,843,871	15.3	1.70
Hungary	10	2,728,422,664	272,842,266	19,091,350	7.0	1.58
Italy	10	2,555,254,839	255,525,484	14,912,815	5.8	1.48
Canada	10	2,499,986,104	249,998,610	22,285,841	8.9	1.45
Indonesia	10	1,982,562,717	198,256,272	41,339,702	20.9	1.15

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Figure 18: Top 15 Countries Production, 1990 to 1999



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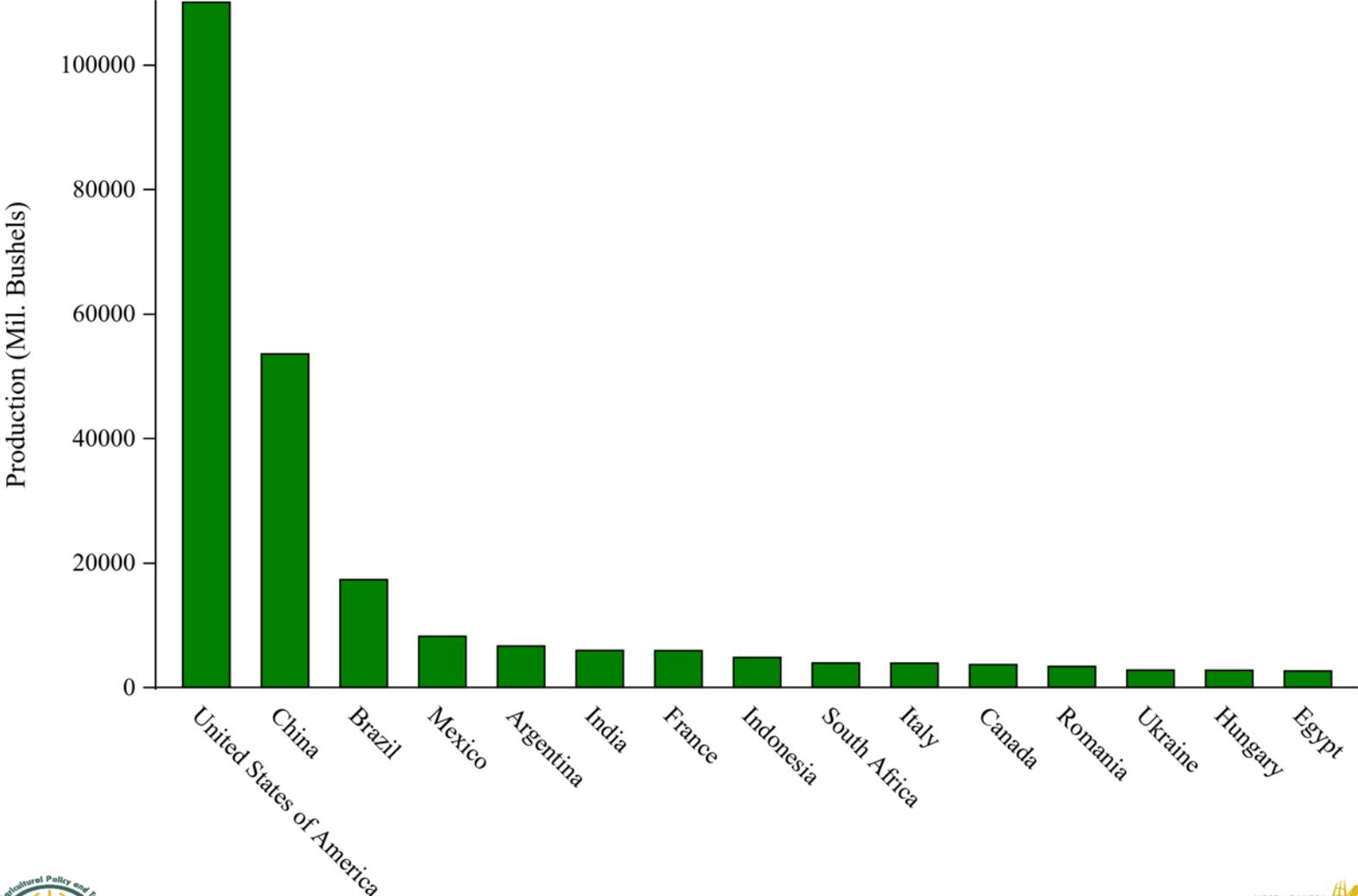


Table 14: Top 15 Countries Production, Descriptive Statistics for 1990 to 1999

Country	Production (Bushels)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	86,301,833,967	8,630,183,397	1,244,169,267	14.4	40.1
China	10	43,355,116,634	4,335,511,663	566,489,996	13.1	20.1
Brazil	10	11,760,422,836	1,176,042,284	173,624,614	14.8	5.46
Mexico	10	6,785,909,362	678,590,936	60,571,409	8.9	3.15
France	10	5,442,244,682	544,224,468	78,791,944	14.5	2.53
Argentina	10	4,541,894,309	454,189,431	153,666,850	33.8	2.11
India	10	3,908,451,103	390,845,110	44,009,024	11.3	1.81
Romania	10	3,670,745,033	367,074,503	72,528,416	19.8	1.70
South Africa	10	3,352,382,040	335,238,204	111,679,379	33.3	1.56
Italy	10	3,230,088,970	323,008,897	58,130,508	18.0	1.50
Indonesia	10	3,149,900,999	314,990,100	53,813,836	17.1	1.46
Canada	10	2,874,127,766	287,412,777	47,098,346	16.4	1.33
Nigeria	10	2,325,270,920	232,527,092	24,538,602	10.6	1.08
Hungary	10	2,214,220,130	221,422,013	51,754,698	23.4	1.03
Egypt	10	2,091,510,389	209,151,039	23,044,143	11.0	0.97

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Figure 19: Top 15 Countries Production, 2000 to 2009



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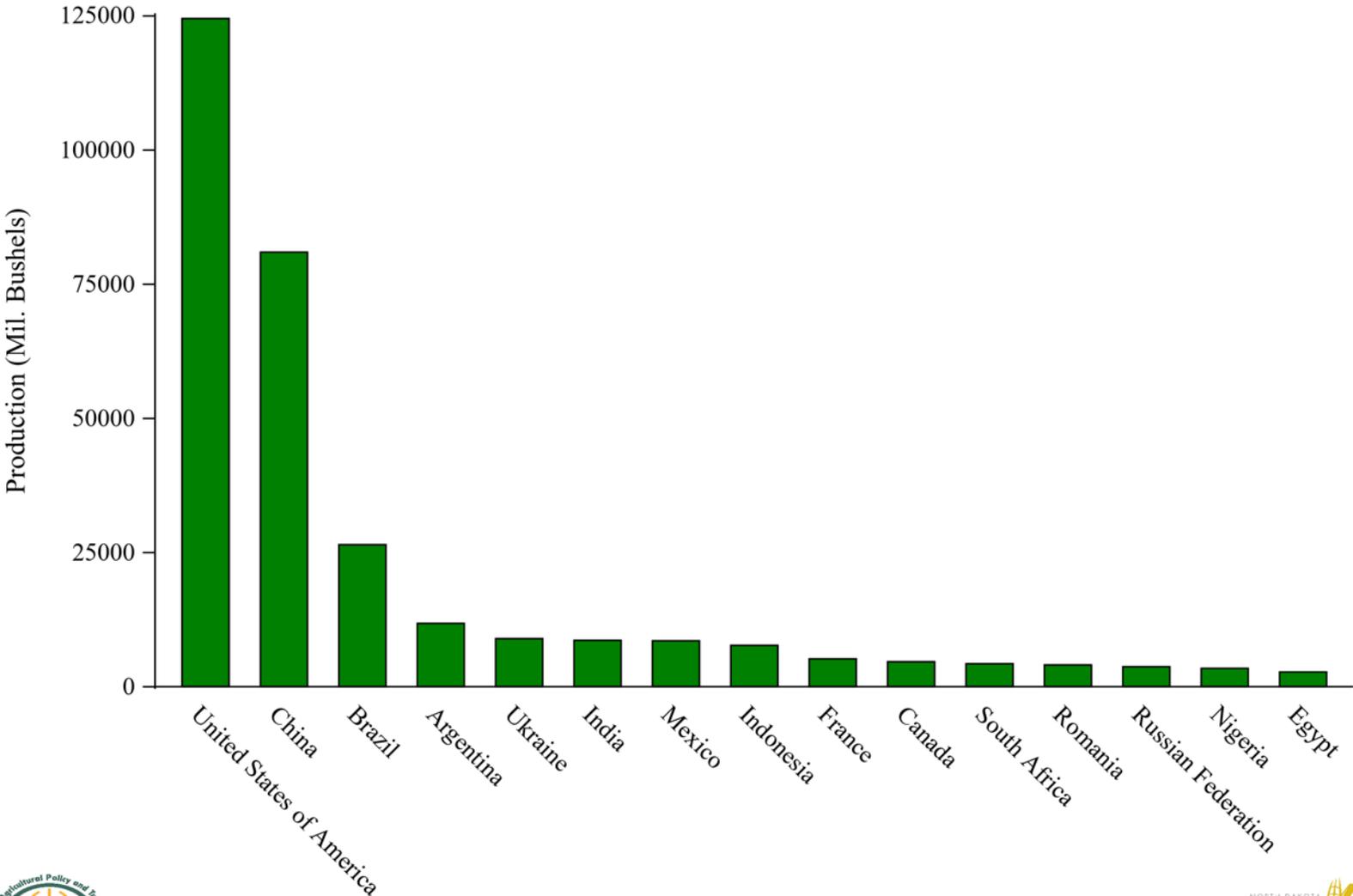


Table 15: Top 15 Countries Production, Descriptive Statistics for 2000 to 2009

Country	Production (Bushels)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	110,068,093,610	11,006,809,361	1,444,582,910	13.1	39.7
China	10	53,573,701,553	5,357,370,155	856,938,585	16.0	19.3
Brazil	10	17,317,178,636	1,731,717,864	332,977,981	19.2	6.24
Mexico	10	8,210,911,992	821,091,199	80,321,728	9.8	2.96
Argentina	10	6,640,171,428	664,017,143	129,443,306	19.5	2.39
India	10	5,933,726,053	593,372,605	108,729,709	18.3	2.14
France	10	5,902,405,148	590,240,515	63,461,344	10.8	2.13
Indonesia	10	4,806,663,833	480,666,383	111,458,193	23.2	1.73
South Africa	10	3,906,103,078	390,610,308	82,186,889	21.0	1.41
Italy	10	3,881,418,200	388,141,820	39,545,020	10.2	1.40
Canada	10	3,656,881,710	365,688,171	49,227,359	13.5	1.32
Romania	10	3,369,295,005	336,929,501	115,214,879	34.2	1.21
Ukraine	10	2,769,830,123	276,983,012	105,896,896	38.2	1.00
Hungary	10	2,740,465,375	274,046,537	74,216,507	27.1	0.99
Egypt	10	2,620,167,553	262,016,755	21,332,480	8.1	0.94

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Figure 20: Top 15 Countries Production, 2010 to 2019



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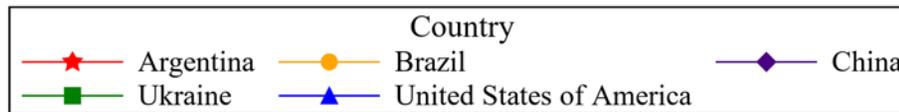
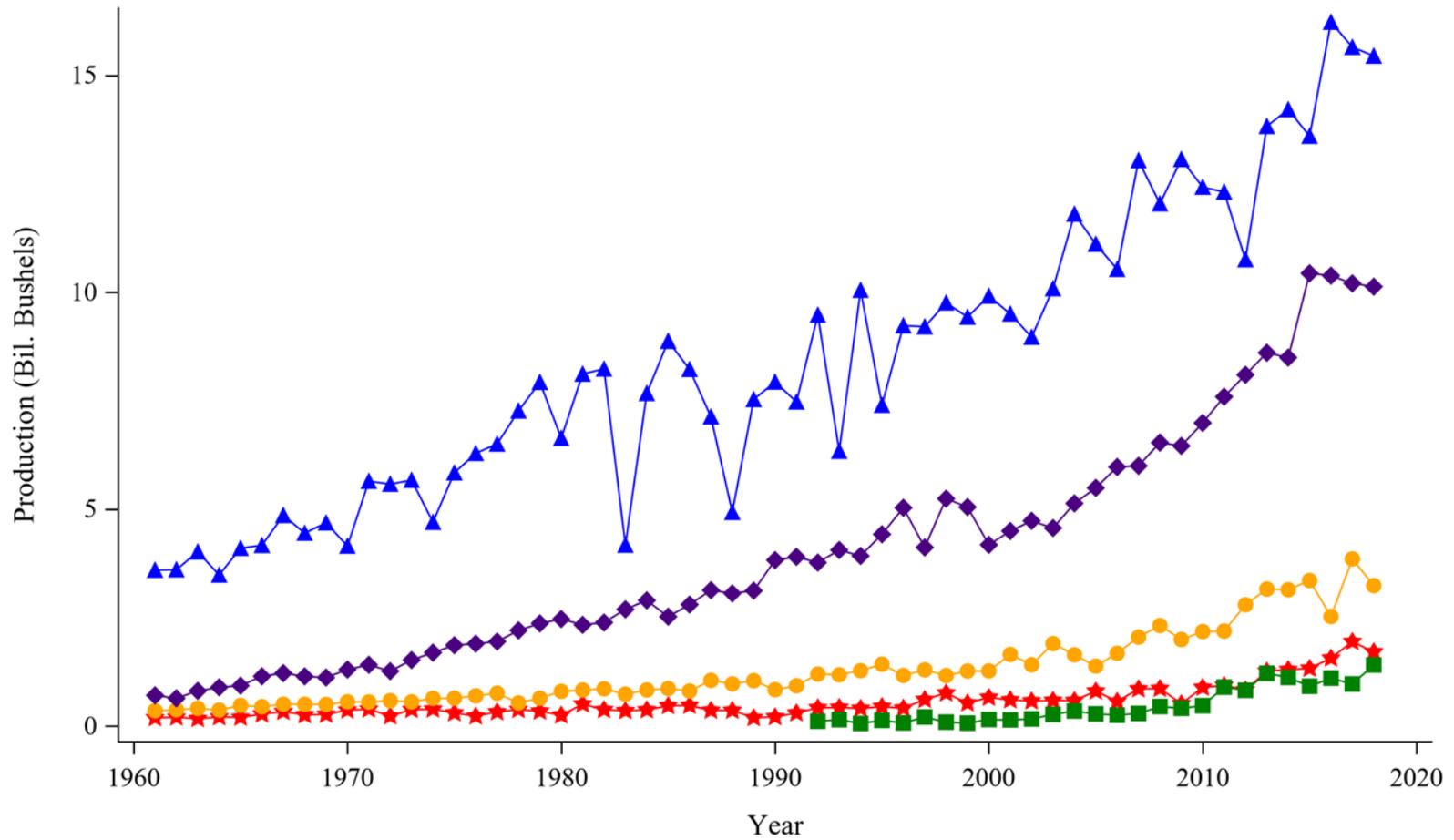


Table 16: Top 15 Countries Production, Descriptive Statistics for 2010 to 2019

Country	Production (Bushels)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	9	124,472,343,655	13,830,260,406	1,790,081,815	12.9	34.5
China	9	80,946,053,539	8,994,005,949	1,321,020,715	14.7	22.4
Brazil	9	26,452,242,854	2,939,138,095	561,295,570	19.1	7.33
Argentina	9	11,787,360,035	1,309,706,671	383,377,546	29.3	3.27
Ukraine	9	8,939,313,019	993,257,002	266,782,153	26.9	2.48
India	9	8,630,068,324	958,896,480	103,199,873	10.8	2.39
Mexico	9	8,535,814,876	948,423,875	131,836,768	13.9	2.37
Indonesia	9	7,686,483,424	854,053,714	188,715,610	22.1	2.13
France	9	5,173,959,714	574,884,413	75,075,236	13.1	1.43
Canada	9	4,637,857,470	515,317,497	44,310,275	8.6	1.29
South Africa	9	4,268,268,954	474,252,106	102,226,846	21.6	1.18
Romania	9	4,045,630,828	449,514,536	141,321,686	31.4	1.12
Russian Federation	9	3,712,748,799	412,527,644	147,893,483	35.9	1.03
Nigeria	9	3,402,060,559	378,006,729	48,885,492	12.9	0.94
Egypt	9	2,735,728,577	303,969,842	21,351,177	7.0	0.76

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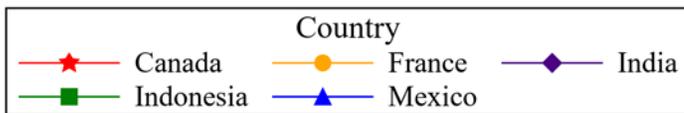
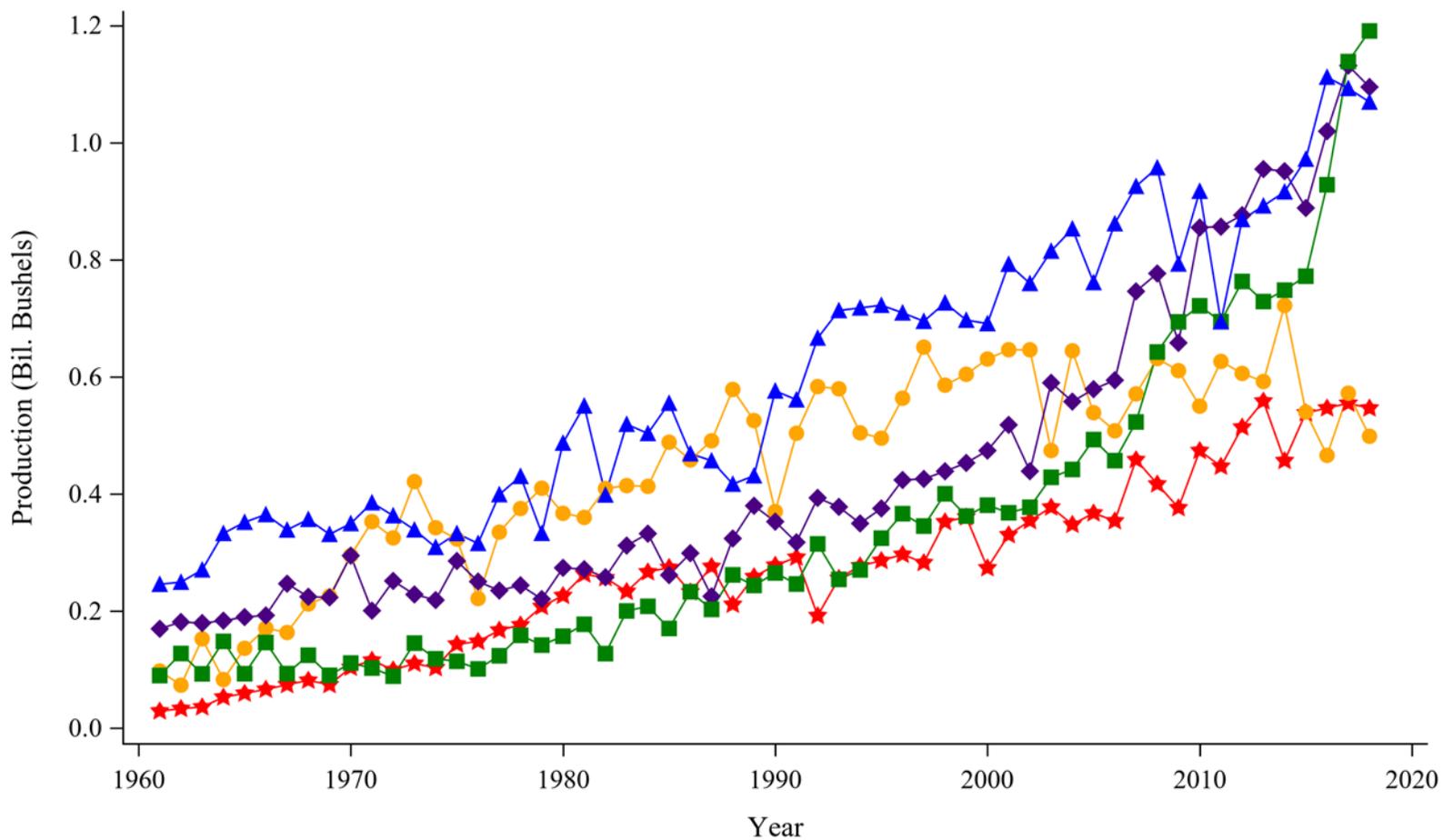
Figure 21: Top 5 Countries Production, Annual Trends



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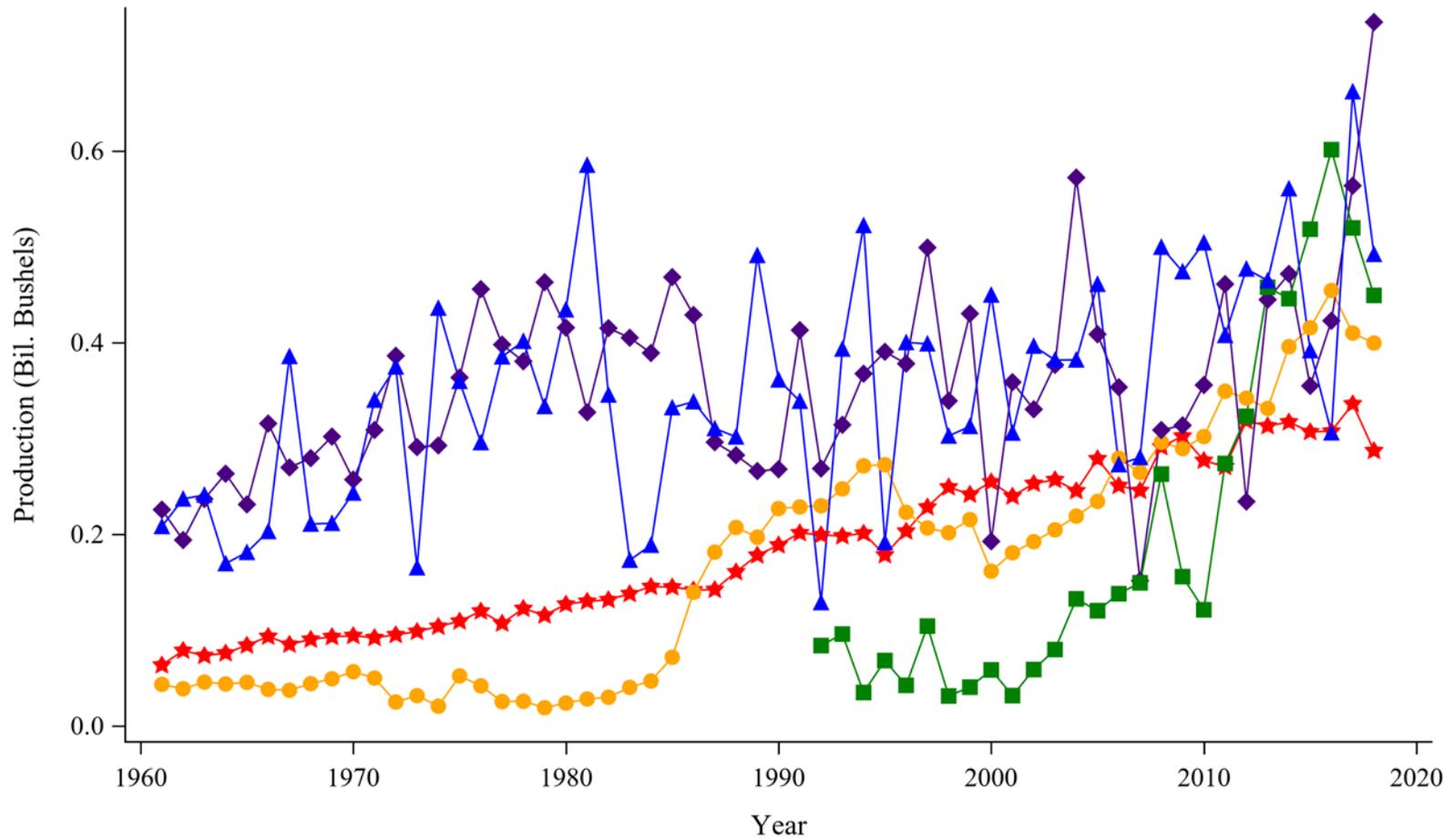
Figure 22: Top 6 to 10 Countries Production, Annual Trends



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Figure 23: Top 11 to 15 Countries Production, Annual Trends



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Table 17: Top 15 Countries Production, Annual Trends

Country	Production(Bushels)								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States of America	12,425,246,275	12,313,873,022	10,755,038,403	13,828,870,978	14,215,436,000	13,601,106,233	16,229,937,502	15,652,830,574	15,450,004,669
China	6,989,425,742	7,594,253,805	8,098,756,773	8,606,707,156	8,496,090,753	10,438,712,862	10,384,402,462	10,206,401,979	10,131,302,008
Brazil	2,179,580,621	2,191,232,131	2,797,994,384	3,160,194,235	3,144,779,380	3,357,424,057	2,526,965,546	3,854,546,784	3,239,525,716
Argentina	892,200,724	936,951,707	834,469,205	1,264,469,099	1,302,575,512	1,331,336,946	1,566,565,076	1,947,767,034	1,711,024,732
Ukraine	470,565,704	899,082,447	825,204,458	1,218,421,884	1,121,862,416	918,359,776	1,105,241,246	971,159,350	1,409,415,736
India	855,301,294	856,647,680	876,331,680	955,048,390	951,524,560	888,535,760	1,019,631,200	1,131,830,000	1,095,217,760
Mexico	917,348,372	694,271,096	868,822,391	892,234,502	916,221,582	972,155,203	1,112,152,299	1,092,981,776	1,069,627,655
Indonesia	721,522,374	694,579,466	763,228,282	728,774,629	748,323,715	772,102,341	928,234,963	1,138,680,623	1,191,037,031
France	550,179,020	626,507,116	606,011,190	592,142,985	722,139,822	539,973,378	466,106,451	572,209,825	498,689,928
Canada	474,120,634	447,169,302	514,150,017	558,659,478	456,920,755	538,534,556	546,782,152	554,903,770	546,616,806
South Africa	504,500,920	407,852,480	477,165,985	464,959,701	560,994,000	391,908,440	306,223,988	662,169,760	492,493,680
Romania	355,966,716	461,298,122	234,371,562	445,058,980	471,965,355	355,154,593	423,063,763	563,989,787	734,761,951
Russian Federation	121,424,730	274,097,259	323,326,392	458,044,436	446,123,609	518,606,317	601,605,793	519,976,284	449,543,979
Nigeria	302,222,231	349,527,056	342,300,823	331,583,673	396,001,452	415,806,784	454,620,877	410,214,560	399,783,103
Egypt	277,193,985	270,712,989	318,630,656	313,235,153	317,302,379	307,195,708	307,764,852	336,306,455	287,386,400

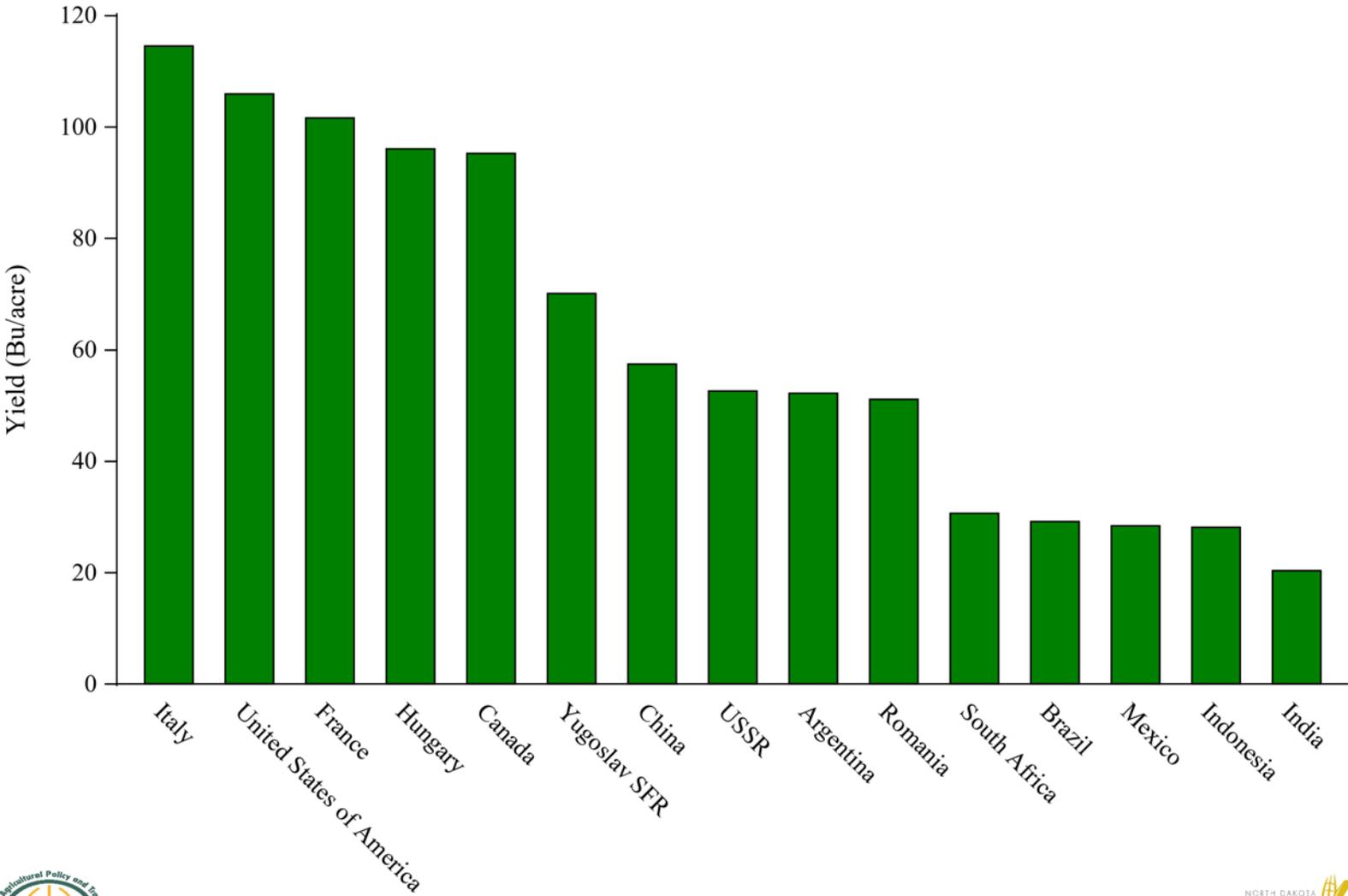
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Table 18: Top 15 Countries Production Share, Annual Trends

Country	Share(percentages)								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States of America	37.05	35.27	31.22	34.56	34.74	32.83	36.57	34.14	34.19
China	20.84	21.75	23.51	21.51	20.76	25.20	23.40	22.26	22.42
Brazil	6.50	6.28	8.12	7.90	7.69	8.10	5.69	8.41	7.17
Argentina	2.66	2.68	2.42	3.16	3.18	3.21	3.53	4.25	3.79
Ukraine	1.40	2.58	2.40	3.05	2.74	2.22	2.49	2.12	3.12
India	2.55	2.45	2.54	2.39	2.33	2.14	2.30	2.47	2.42
Mexico	2.74	1.99	2.52	2.23	2.24	2.35	2.51	2.38	2.37
Indonesia	2.15	1.99	2.22	1.82	1.83	1.86	2.09	2.48	2.64
France	1.64	1.79	1.76	1.48	1.76	1.30	1.05	1.25	1.10
Canada	1.41	1.28	1.49	1.40	1.12	1.30	1.23	1.21	1.21
South Africa	1.50	1.17	1.38	1.16	1.37	0.95	0.69	1.44	1.09
Romania	1.06	1.32	0.68	1.11	1.15	0.86	0.95	1.23	1.63
Russian Federation	0.36	0.79	0.94	1.14	1.09	1.25	1.36	1.13	0.99
Nigeria	0.90	1.00	0.99	0.83	0.97	1.00	1.02	0.89	0.88
Egypt	0.83	0.78	0.92	0.78	0.78	0.74	0.69	0.73	0.64

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Figure 24: Top 15 Countries Yield, 1980 to 1989



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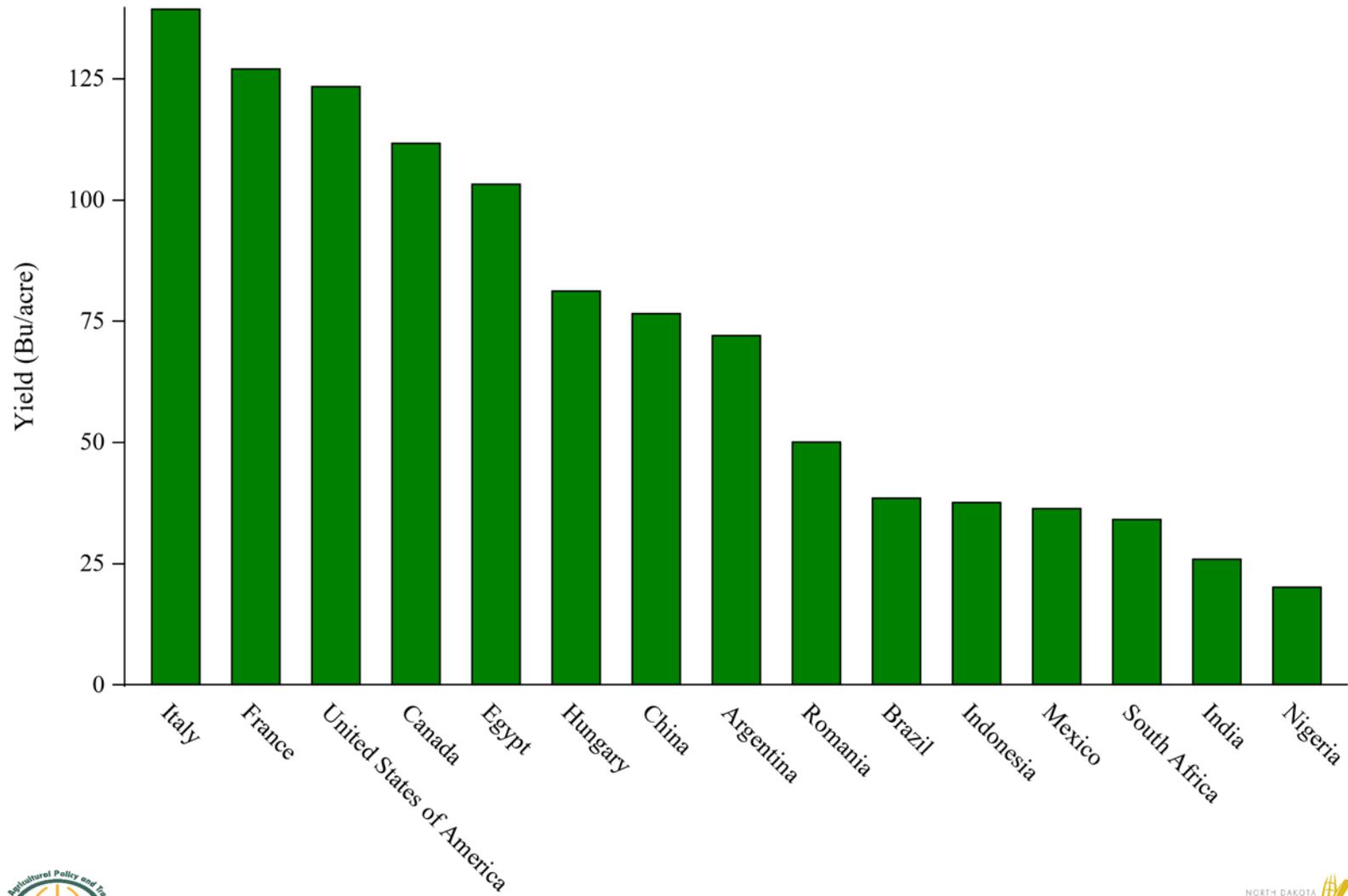


Table 19: Top 15 Countries Yield, Descriptive Statistics for 1980 to 1989

Country	Yield (Bu/acre)			
	N	Mean	Risk	Coefficient of Variation
Italy	10	114.516	6.445	5.6
United States of America	10	105.909	14.853	14.0
France	10	101.598	9.659	9.5
Hungary	10	96.050	7.447	7.8
Canada	10	95.234	7.317	7.7
Yugoslav SFR	10	70.082	8.824	12.6
China	10	57.414	5.619	9.8
USSR	10	52.570	5.101	9.7
Argentina	10	52.180	6.728	12.9
Romania	10	51.087	8.350	16.3
South Africa	10	30.624	12.000	39.2
Brazil	10	29.136	1.959	6.7
Mexico	10	28.369	1.254	4.4
Indonesia	10	28.104	3.358	11.9
India	10	20.324	2.913	14.3

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Figure 25: Top 15 Countries Yield, 1990 to 1999



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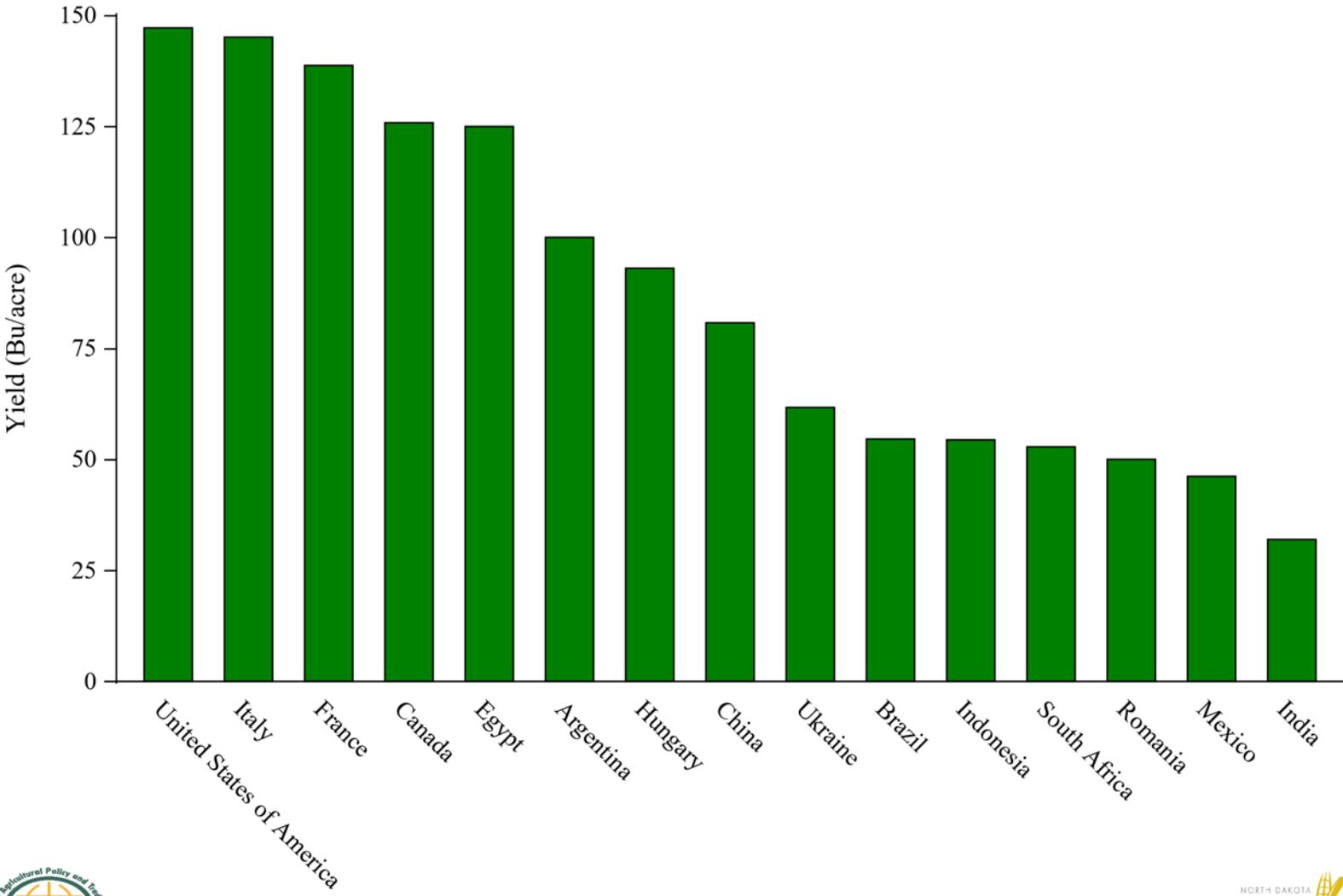


Table 20: Top 15 Countries Yield, Descriptive Statistics for 1990 to 1999

Country	Yield (Bu/acre)			
	N	Mean	Risk	Coefficient of Variation
Italy	10	139.306	13.241	9.5
France	10	126.986	13.994	11.0
United States of America	10	123.338	12.502	10.1
Canada	10	111.647	11.055	9.9
Egypt	10	103.210	10.379	10.1
Hungary	10	81.172	20.385	25.1
China	10	76.512	4.803	6.3
Argentina	10	71.991	11.680	16.2
Romania	10	50.012	10.729	21.5
Brazil	10	38.446	5.448	14.2
Indonesia	10	37.545	3.514	9.4
Mexico	10	36.296	2.491	6.9
South Africa	10	34.050	9.826	28.9
India	10	25.847	2.258	8.7
Nigeria	10	20.071	2.273	11.3

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Figure 26: Top 15 Countries Yield, 2000 to 2009



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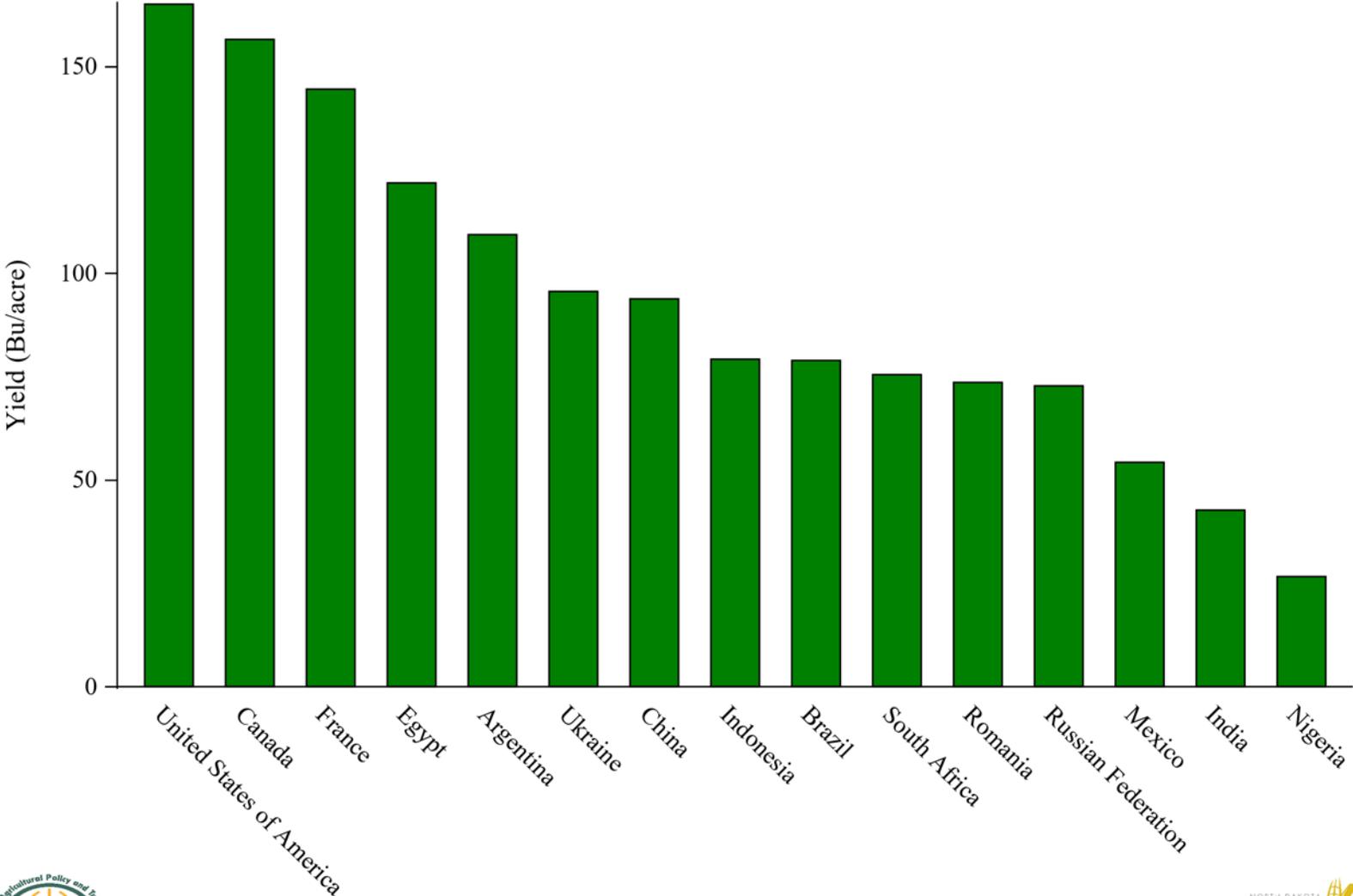


Table 21: Top 15 Countries Yield, Descriptive Statistics for 2000 to 2009

Country	Yield (Bu/acre)			
	N	Mean	Risk	Coefficient of Variation
United States of America	10	147.227	10.819	7.3
Italy	10	145.134	10.632	7.3
France	10	138.766	10.302	7.4
Canada	10	125.858	14.957	11.9
Egypt	10	125.007	5.835	4.7
Argentina	10	100.040	12.157	12.2
Hungary	10	93.084	23.562	25.3
China	10	80.785	4.926	6.1
Ukraine	10	61.728	10.141	16.4
Brazil	10	54.602	6.554	12.0
Indonesia	10	54.421	7.668	14.1
South Africa	10	52.841	13.343	25.3
Romania	10	50.029	14.137	28.3
Mexico	10	46.203	4.581	9.9
India	10	31.981	3.519	11.0

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Figure 27: Top 15 Countries Yield, 2010 to 2019



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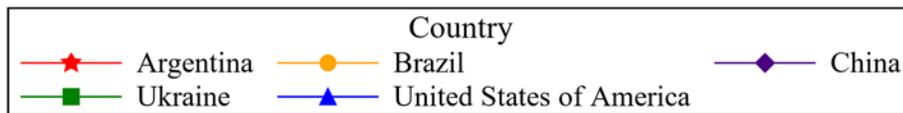
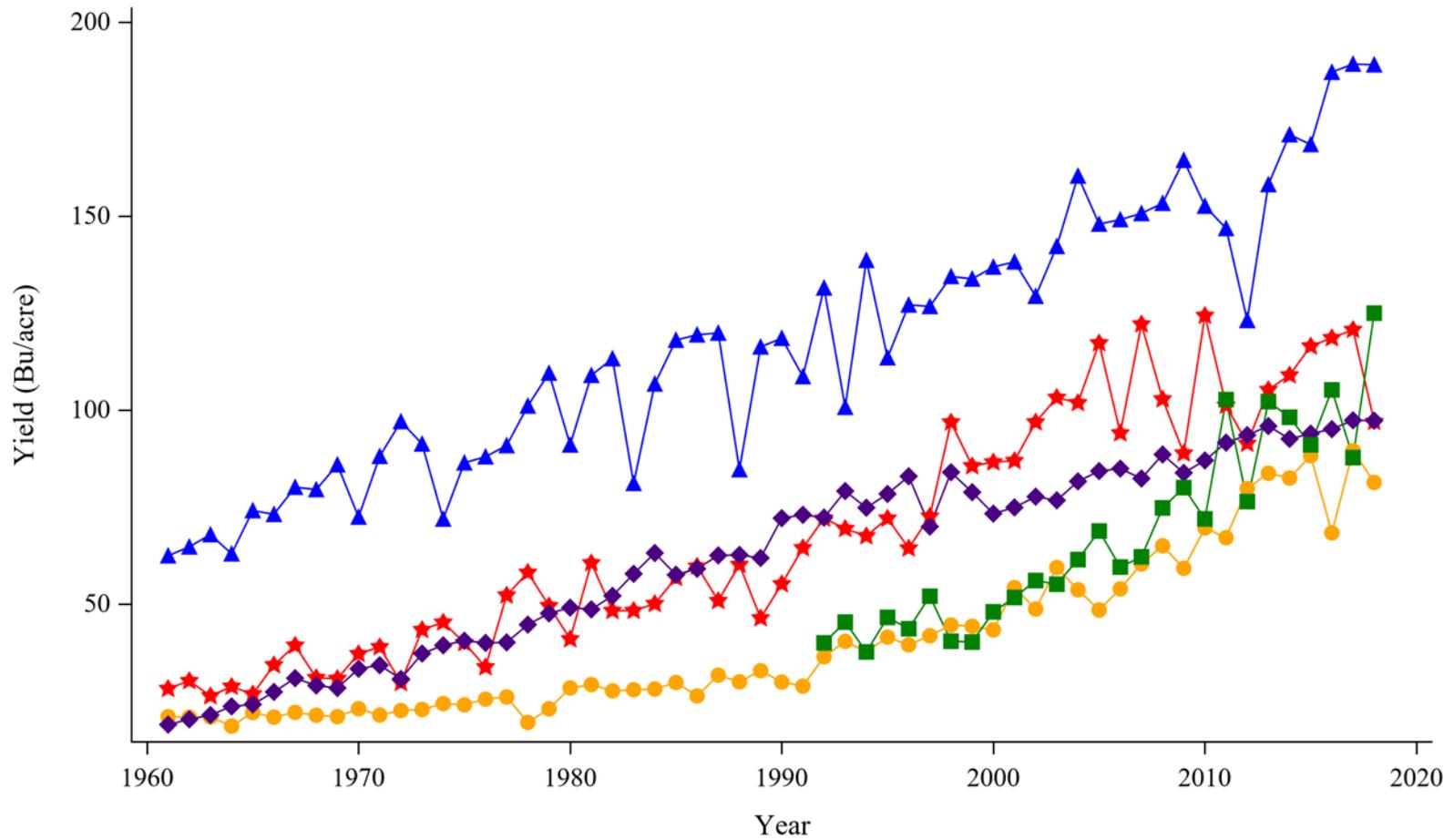


Table 22: Top 15 Countries Yield, Descriptive Statistics for 2010 to 2019

Country	Yield (Bu/acre)			
	N	Mean	Risk	Coefficient of Variation
United States of America	9	165.035	22.322	13.5
Canada	9	156.521	7.279	4.7
France	9	144.492	12.619	8.7
Egypt	9	121.812	3.163	2.6
Argentina	9	109.308	11.451	10.5
Ukraine	9	95.571	16.072	16.8
China	9	93.780	3.227	3.4
Indonesia	9	79.189	5.098	6.4
Brazil	9	78.876	8.514	10.8
South Africa	9	75.446	13.178	17.5
Romania	9	73.562	24.235	32.9
Russian Federation	9	72.742	11.261	15.5
Mexico	9	54.244	5.014	9.2
India	9	42.684	3.621	8.5
Nigeria	9	26.617	3.155	11.9

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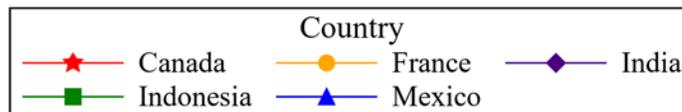
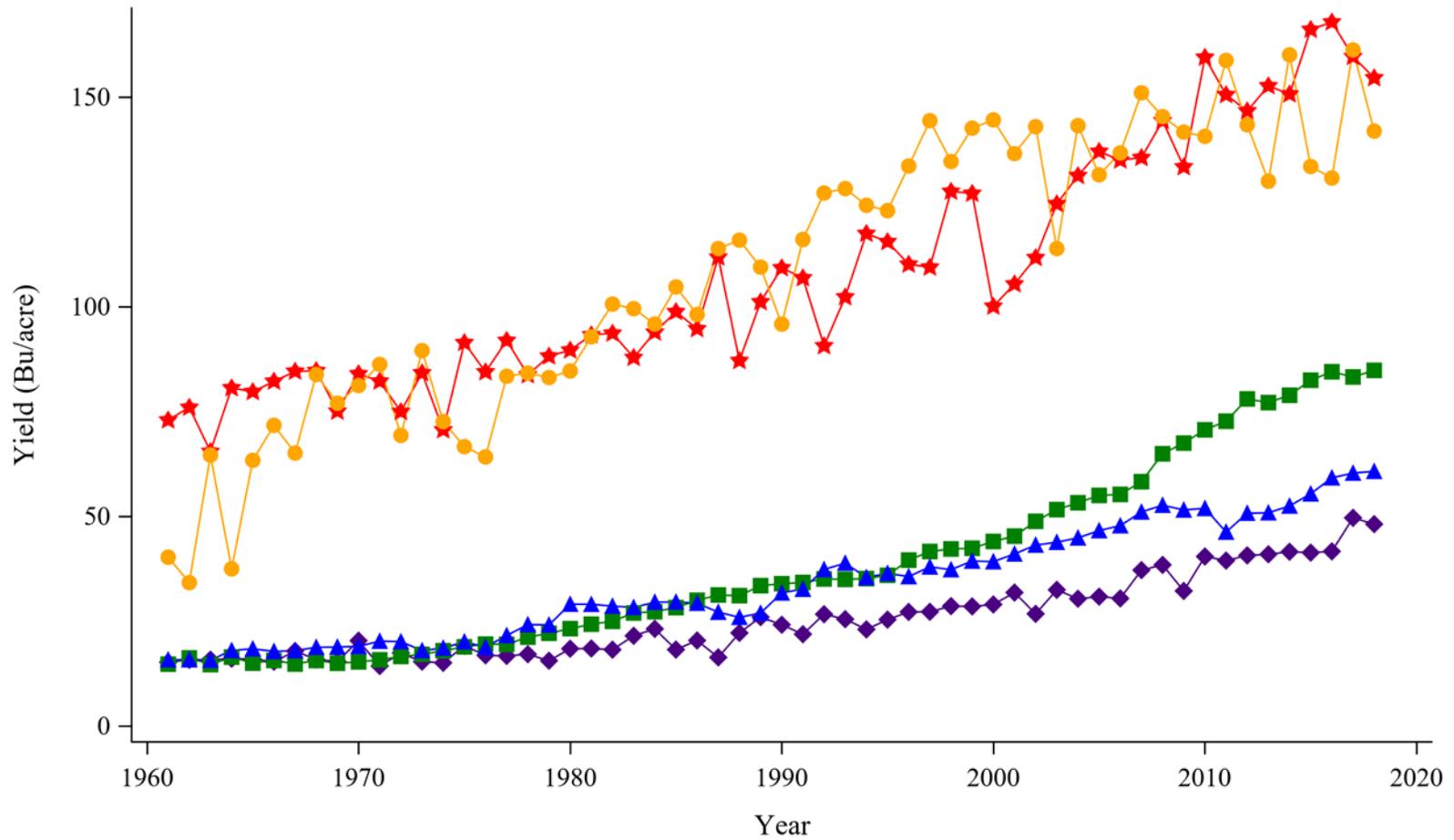
Figure 28: Top 5 Countries Yield, Annual Trends



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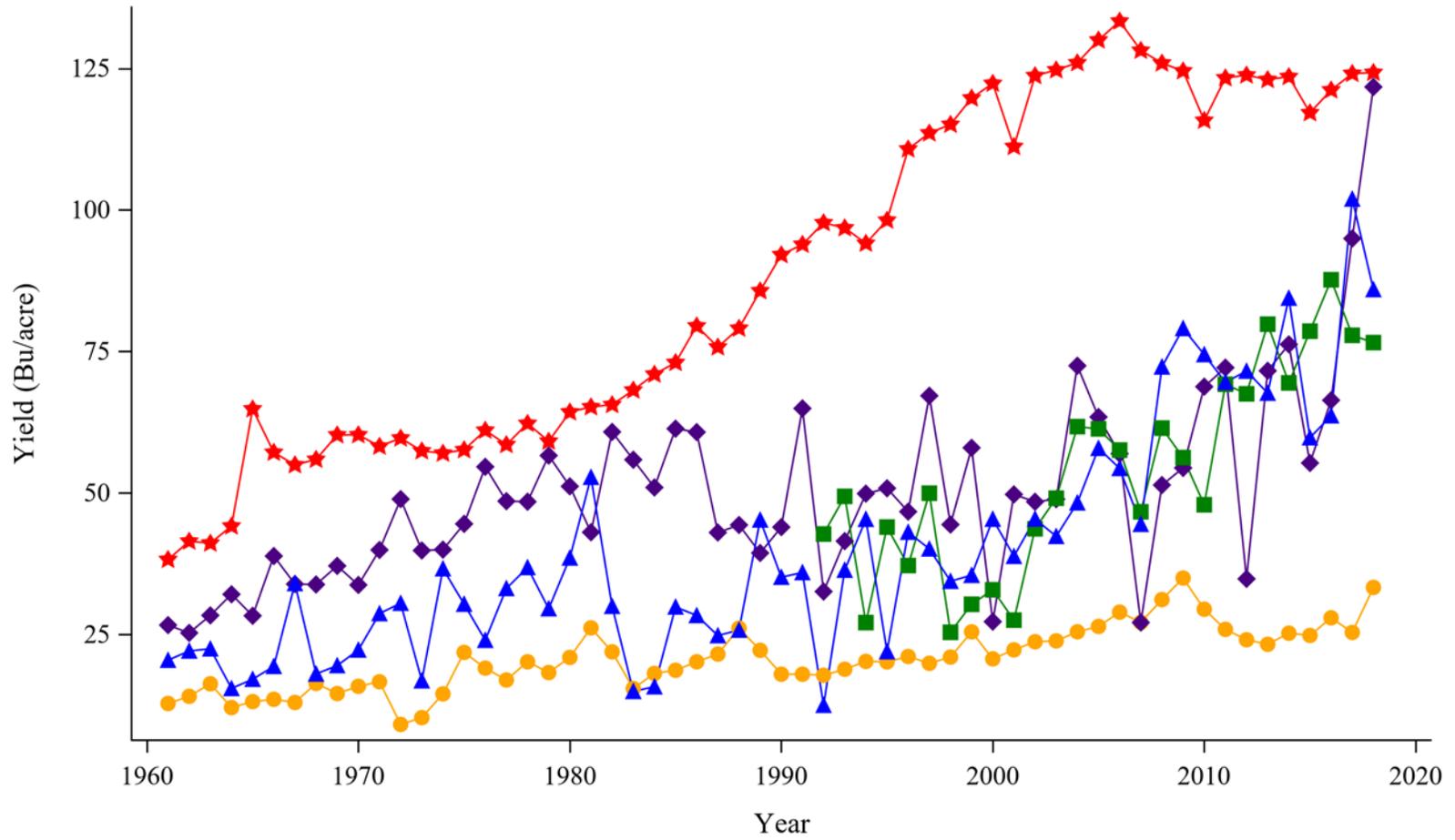
Figure 29: Top 6 to 10 Countries Yield, Annual Trends



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Figure 30: Top 11 to 15 Countries Yield, Annual Trends



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Table 23: Top 15 Countries Yield, Annual Trends

Country	Yield (Bu acre)								
	2010	2011	2012	2013	2014	2015	2016	2017	2018
United States of America	152.56	146.80	123.10	158.13	170.99	168.44	187.09	189.20	189.01
China	86.98	91.58	93.52	95.85	92.55	93.88	95.06	97.35	97.25
Brazil	69.57	67.08	79.75	83.70	82.46	88.19	68.31	89.51	81.32
Argentina	124.33	101.17	91.36	105.21	108.99	116.44	118.57	120.70	97.00
Ukraine	71.93	102.67	76.39	102.15	98.12	91.01	105.19	87.71	124.97
India	40.47	39.48	40.72	40.99	41.59	41.38	41.68	49.68	48.18
Mexico	51.94	46.29	50.78	50.89	52.52	55.41	59.23	60.36	60.77
Indonesia	70.67	72.73	78.04	77.18	78.92	82.50	84.52	83.28	84.85
France	140.67	158.79	143.42	129.99	160.12	133.48	130.74	161.29	141.93
Canada	159.51	150.59	146.74	152.72	150.75	166.15	167.93	159.69	154.62
South Africa	74.46	69.57	71.54	67.66	84.45	59.78	63.66	101.94	85.95
Romania	68.79	72.16	34.84	71.60	76.26	55.31	66.40	94.97	121.74
Russian Federation	47.93	69.21	67.53	79.83	69.45	78.60	87.67	77.87	76.58
Nigeria	29.48	25.92	24.09	23.29	25.25	24.85	27.96	25.38	33.34
Egypt	115.82	123.33	123.83	123.03	123.56	117.17	121.19	124.10	124.28

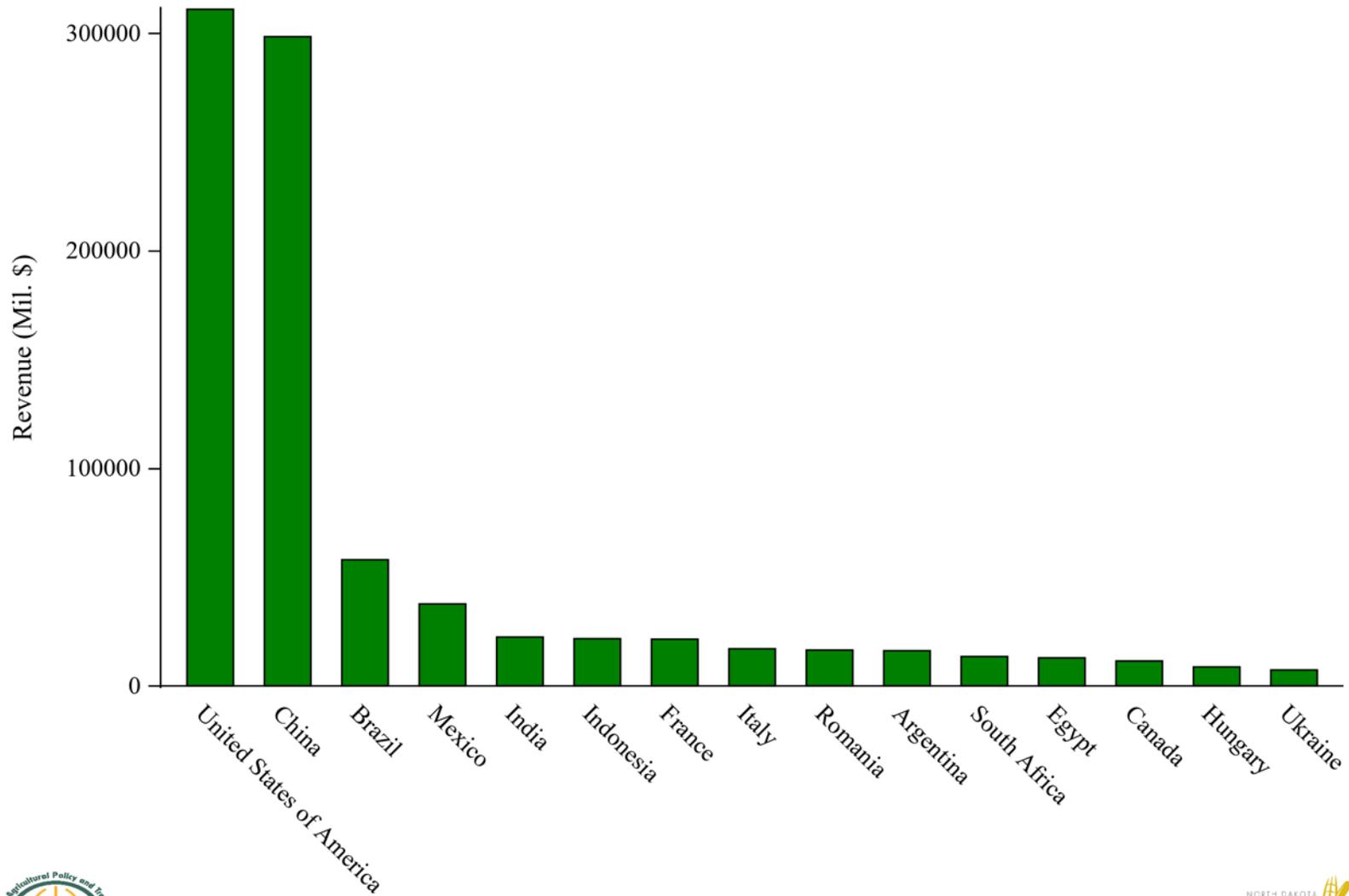
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Table 24: Top 15 Countries Revenue, Descriptive Statistics for 1990 to 1999

Country	Revenue (\$)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	9	191,083,959,850	21,231,551,094	5,165,012,318	24.3	21.7
China	9	150,453,800,470	16,717,088,941	8,734,350,134	52.2	17.1
Brazil	9	31,310,683,575	3,478,964,842	725,698,588	20.9	3.56
Mexico	9	30,671,348,575	3,407,927,619	580,751,358	17.0	3.49
France	9	20,436,426,299	2,270,714,033	389,093,418	17.1	2.32
Italy	9	16,100,678,033	1,788,964,226	242,591,266	13.6	1.83
Nigeria	9	13,902,318,249	1,544,702,028	379,593,313	24.6	1.58
Argentina	9	11,358,328,488	1,262,036,499	413,864,430	32.8	1.29
Indonesia	9	10,748,590,159	1,194,287,795	362,276,451	30.3	1.22
India	9	10,629,742,659	1,181,082,518	99,951,411	8.5	1.21
South Africa	9	9,405,802,946	1,045,089,216	312,697,990	29.9	1.07
Romania	7	8,750,275,218	1,250,039,317	293,900,935	23.5	0.99
Egypt	9	7,422,274,032	824,697,115	172,828,459	21.0	0.84
Canada	9	7,130,262,893	792,251,433	225,505,454	28.5	0.81
Hungary	9	4,713,983,191	523,775,910	132,093,351	25.2	0.54

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Figure 31: Top 15 Countries Revenue, 2000 to 2009



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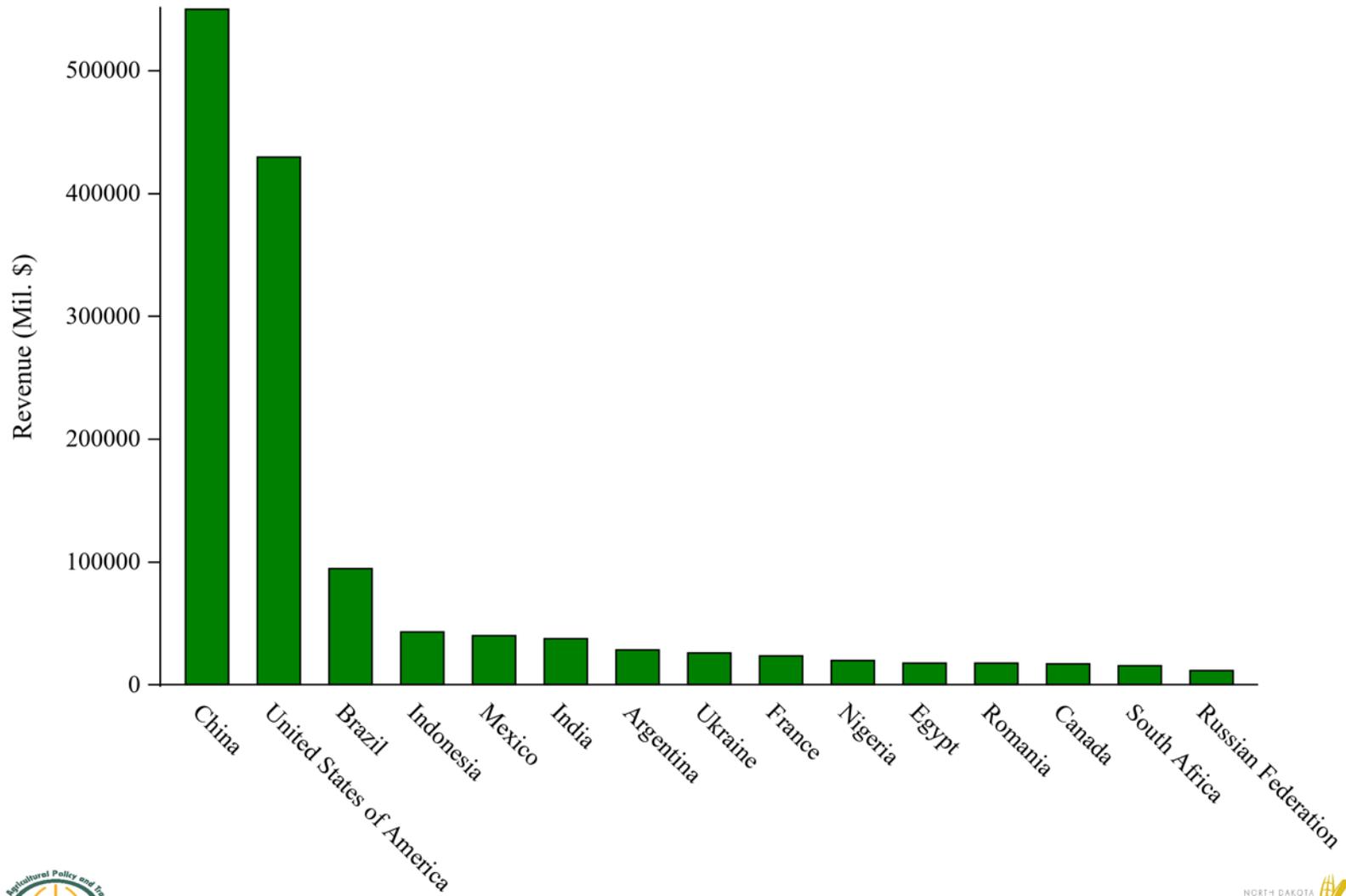


Table 25: Top 15 Countries Revenue, Descriptive Statistics for 2000 to 2009

Country	Revenue (\$)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
United States of America	10	311,029,291,200	31,102,929,120	13,741,289,380	44.2	29.3
China	10	298,428,374,245	29,842,837,425	9,185,829,726	30.8	28.1
Brazil	10	57,989,386,897	5,798,938,690	3,140,972,854	54.2	5.46
Mexico	10	37,680,482,661	3,768,048,266	1,143,093,302	30.3	3.55
India	10	22,441,421,232	2,244,142,123	1,002,387,973	44.7	2.11
Indonesia	10	21,701,004,128	2,170,100,413	1,259,820,723	58.1	2.04
France	10	21,470,471,990	2,147,047,199	724,250,504	33.7	2.02
Italy	10	17,055,666,999	1,705,566,700	488,680,476	28.7	1.61
Romania	10	16,464,086,560	1,646,408,656	776,970,055	47.2	1.55
Argentina	10	16,178,176,221	1,617,817,622	663,645,001	41.0	1.52
South Africa	10	13,506,851,164	1,350,685,116	519,758,406	38.5	1.27
Egypt	10	12,874,386,647	1,287,438,665	431,328,138	33.5	1.21
Canada	10	11,453,305,102	1,145,330,510	439,965,158	38.4	1.08
Hungary	10	8,714,815,957	871,481,596	343,626,567	39.4	0.82
Ukraine	10	7,311,526,694	731,152,669	444,423,166	60.8	0.69

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Figure 32: Top 15 Countries Revenue, 2010 to 2019



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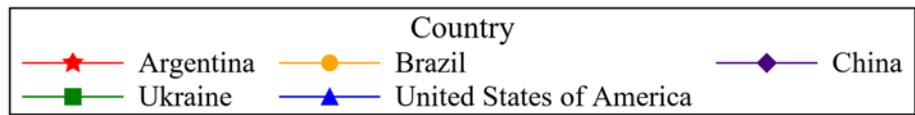
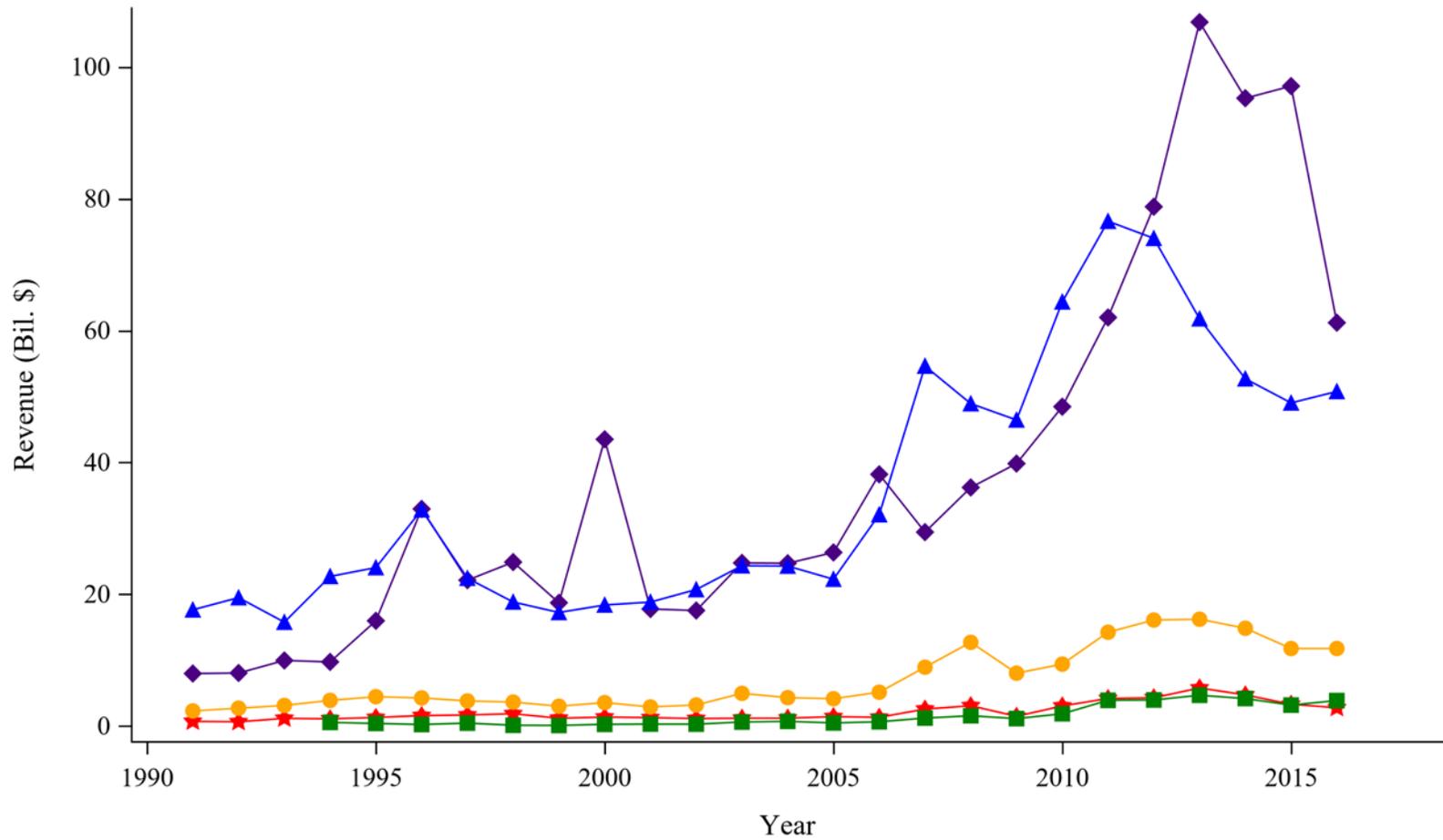


Table 26: Top 15 Countries Revenue, Descriptive Statistics for 2010 to 2019

Country	Revenue (\$)					Share
	N	Sum	Mean	Risk	Coefficient of Variation	
China	7	549,855,287,386	78,550,755,341	22,001,204,448	28.0	33.9
United States of America	7	429,447,371,450	61,349,624,493	11,112,971,543	18.1	26.5
Brazil	7	94,402,354,912	13,486,050,702	2,557,773,517	19.0	5.82
Indonesia	7	42,841,981,850	6,120,283,121	405,133,057	6.6	2.64
Mexico	7	39,807,062,717	5,686,723,245	531,831,874	9.4	2.45
India	7	37,370,812,205	5,338,687,458	275,868,646	5.2	2.30
Argentina	7	28,201,611,066	4,028,801,581	1,055,855,217	26.2	1.74
Ukraine	7	25,706,438,273	3,672,348,325	906,790,332	24.7	1.58
France	7	23,336,113,185	3,333,730,455	804,680,264	24.1	1.44
Nigeria	7	19,559,576,994	2,794,225,285	601,182,089	21.5	1.21
Egypt	7	17,433,683,027	2,490,526,147	301,005,528	12.1	1.07
Romania	7	17,427,783,957	2,489,683,422	848,853,547	34.1	1.07
Canada	7	16,845,516,557	2,406,502,365	646,528,097	26.9	1.04
South Africa	7	15,341,144,347	2,191,592,050	454,825,425	20.8	0.95
Russian Federation	7	11,396,221,598	1,628,031,657	591,790,140	36.4	0.70

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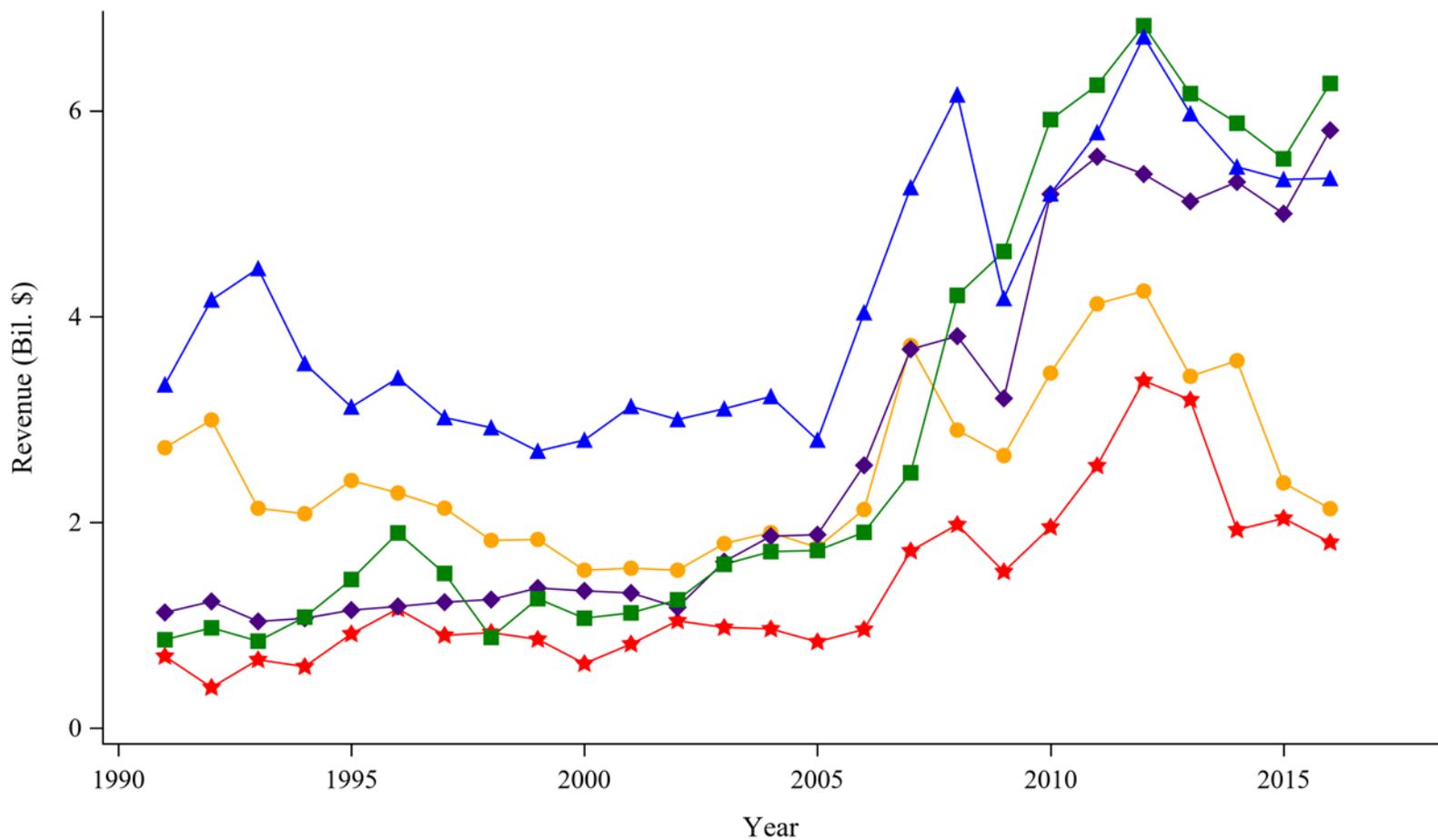
Figure 33: Top 5 Countries Revenue, Annual Trends



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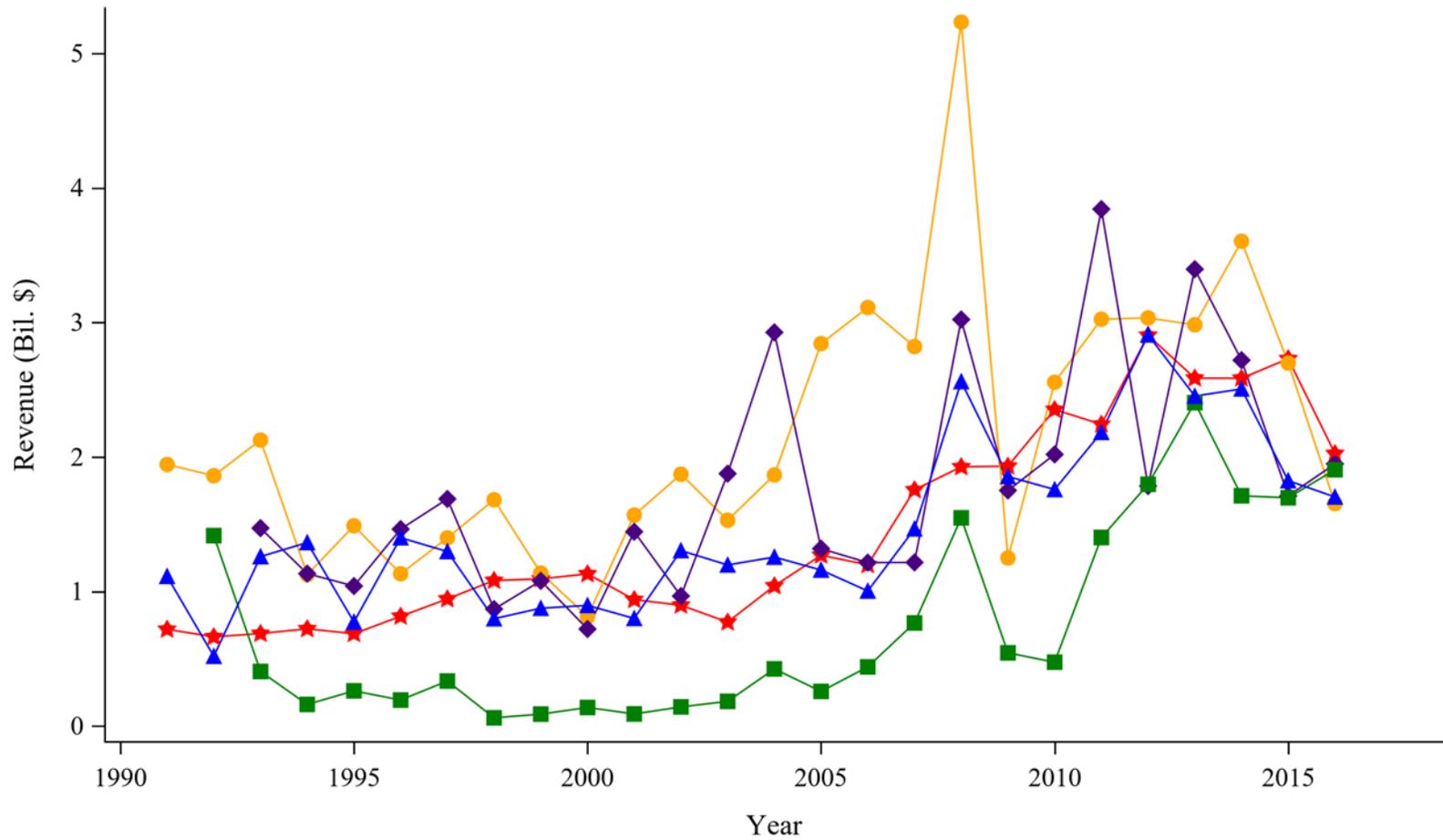
Figure 34: Top 6 to 10 Countries Revenue, Annual Trends



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Figure 35: Top 11 to 15 Countries Revenue, Annual Trends



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Table 27: Top 15 Countries Revenue, Annual Trends

Country	Revenue (\$)						
	2010	2011	2012	2013	2014	2015	2016
United States of America	64,386,055,680	76,633,278,050	74,035,140,400	61,823,849,120	52,719,306,440	49,059,060,280	50,790,681,480
China	48,482,009,889	62,028,027,213	78,827,611,859	106,850,789,366	95,301,700,377	97,138,448,862	61,226,699,820
Brazil	9,409,769,036	14,251,987,190	16,102,720,737	16,226,349,700	14,852,919,515	11,777,866,576	11,780,742,158
Argentina	3,061,670,855	4,196,213,410	4,305,637,943	5,790,968,514	4,739,190,268	3,317,097,653	2,790,832,423
Ukraine	1,876,778,570	3,915,447,177	3,974,002,369	4,685,219,004	4,183,423,762	3,192,968,612	3,878,598,779
India	5,190,798,915	5,554,721,813	5,385,128,583	5,119,963,262	5,308,860,163	5,000,565,287	5,810,774,182
Mexico	5,193,866,645	5,788,603,570	6,719,249,843	5,972,626,275	5,455,688,558	5,333,250,839	5,343,776,987
Indonesia	5,915,161,135	6,250,129,342	6,827,921,627	6,167,892,535	5,880,123,431	5,534,010,539	6,266,743,241
France	3,452,039,655	4,124,566,745	4,249,415,364	3,420,606,495	3,572,141,056	2,383,722,533	2,133,621,337
Canada	1,954,192,928	2,549,977,913	3,378,124,836	3,190,100,944	1,927,439,247	2,039,857,639	1,805,823,050
South Africa	1,759,142,814	2,184,392,146	2,908,378,023	2,453,850,442	2,506,598,484	1,824,976,185	1,703,806,253
Romania	2,020,152,528	3,843,586,883	1,785,215,985	3,397,048,704	2,720,461,093	1,711,641,744	1,949,677,020
Russian Federation	475,430,956	1,402,091,996	1,797,851,917	2,405,038,616	1,712,207,169	1,697,635,070	1,905,965,874
Nigeria	2,556,429,750	3,025,462,565	3,034,683,717	2,983,856,246	3,604,787,940	2,699,775,894	1,654,580,882
Egypt	2,353,318,989	2,243,930,299	2,905,451,935	2,587,218,037	2,586,190,854	2,731,174,500	2,026,398,413

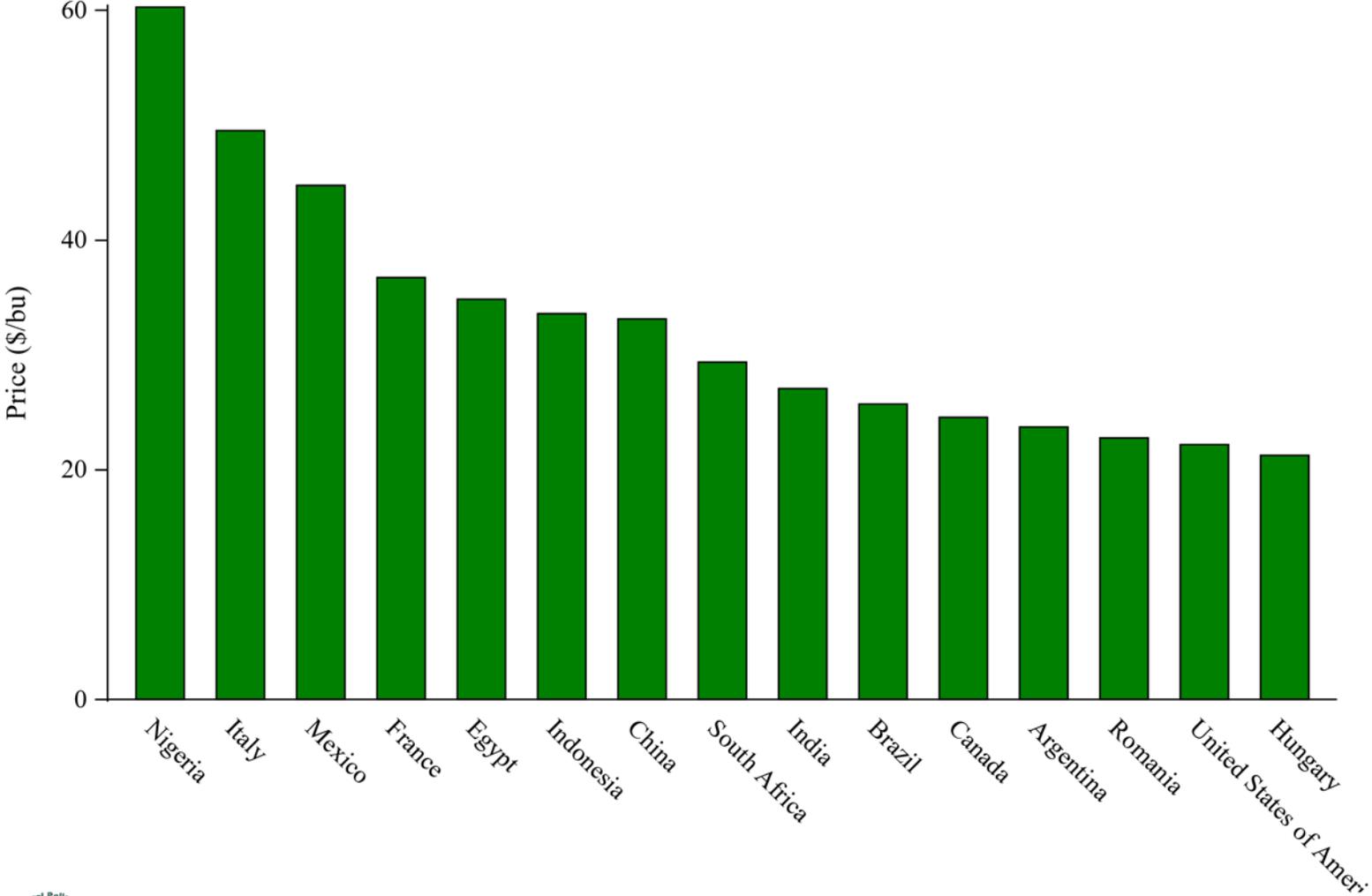
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Table 28: Top 15 Countries Revenue, Annual Trends

Country	Share(percentages)						
	2010	2011	2012	2013	2014	2015	2016
United States of America	33.86	32.21	29.00	22.58	21.34	21.65	26.47
China	25.49	26.07	30.87	39.03	38.58	42.87	31.91
Brazil	4.95	5.99	6.31	5.93	6.01	5.20	6.14
Argentina	1.61	1.76	1.69	2.12	1.92	1.46	1.45
Ukraine	0.99	1.65	1.56	1.71	1.69	1.41	2.02
India	2.73	2.33	2.11	1.87	2.15	2.21	3.03
Mexico	2.73	2.43	2.63	2.18	2.21	2.35	2.79
Indonesia	3.11	2.63	2.67	2.25	2.38	2.44	3.27
France	1.82	1.73	1.66	1.25	1.45	1.05	1.11
Canada	1.03	1.07	1.32	1.17	0.78	0.90	0.94
South Africa	0.93	0.92	1.14	0.90	1.01	0.81	0.89
Romania	1.06	1.62	0.70	1.24	1.10	0.76	1.02
Russian Federation	0.25	0.59	0.70	0.88	0.69	0.75	0.99
Nigeria	1.34	1.27	1.19	1.09	1.46	1.19	0.86
Egypt	1.24	0.94	1.14	0.94	1.05	1.21	1.06

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Figure 36: Top 15 Countries Price, 1990 to 1999



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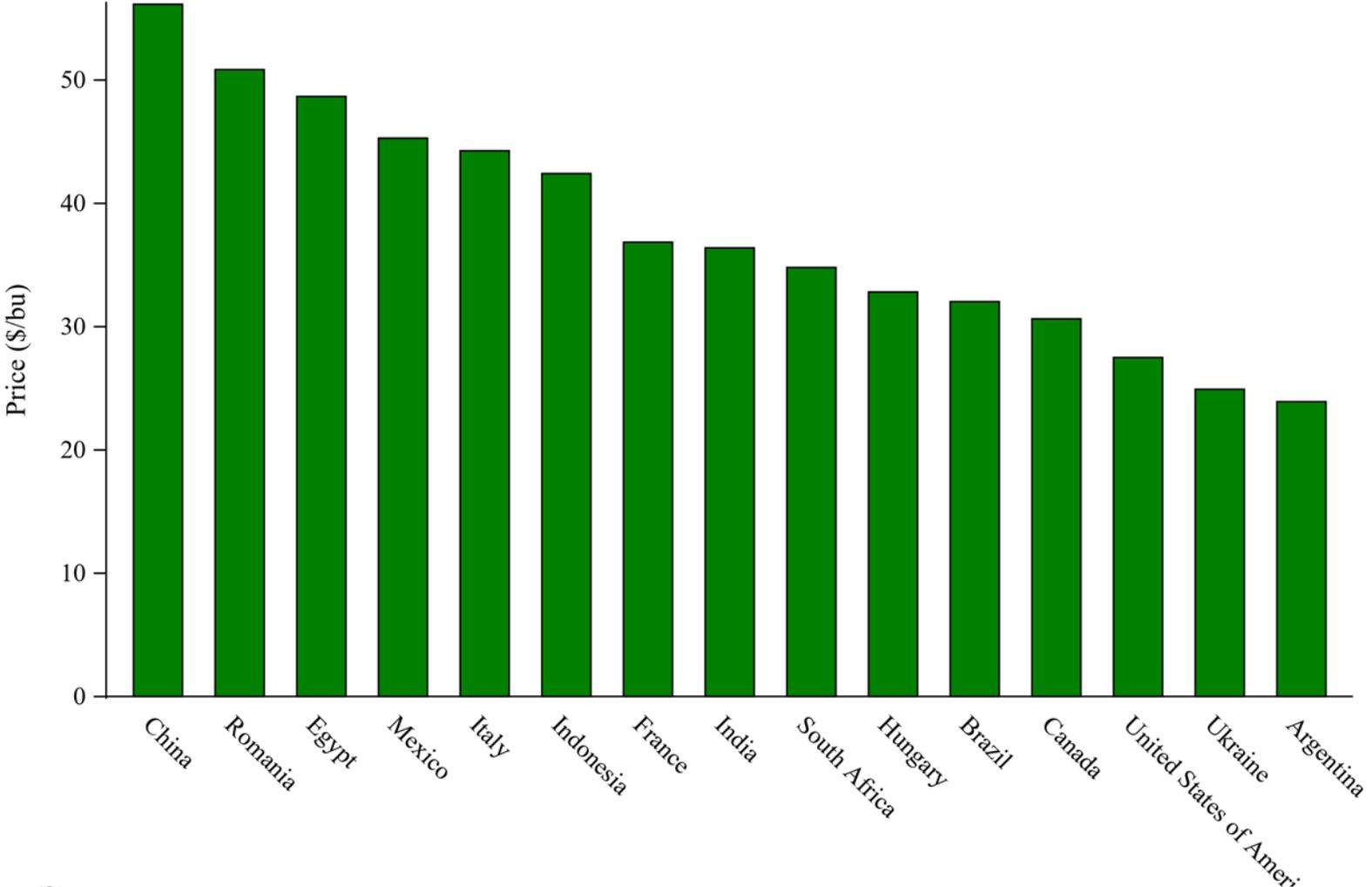


Table 29: Top 15 Countries Price, Descriptive Statistics for 1990 to 1999

Country	Price (\$/bu)			
	N	Mean	Risk	Coefficient of Variation
Nigeria	9	6.695	1.738	26.0
Italy	9	5.501	1.227	22.3
Mexico	9	4.971	0.950	19.1
France	9	4.079	0.888	21.8
Egypt	9	3.870	0.413	10.7
Indonesia	9	3.730	0.873	23.4
China	9	3.679	1.590	43.2
South Africa	9	3.262	0.533	16.3
Romania	7	3.250	0.800	24.6
India	9	3.006	0.241	8.0
Brazil	9	2.856	0.448	15.7
Canada	9	2.727	0.598	21.9
Argentina	9	2.634	0.612	23.2
United States of America	9	2.464	0.583	23.7
Hungary	9	2.360	0.509	21.6

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Figure 37: Top 15 Countries Price, 2000 to 2009



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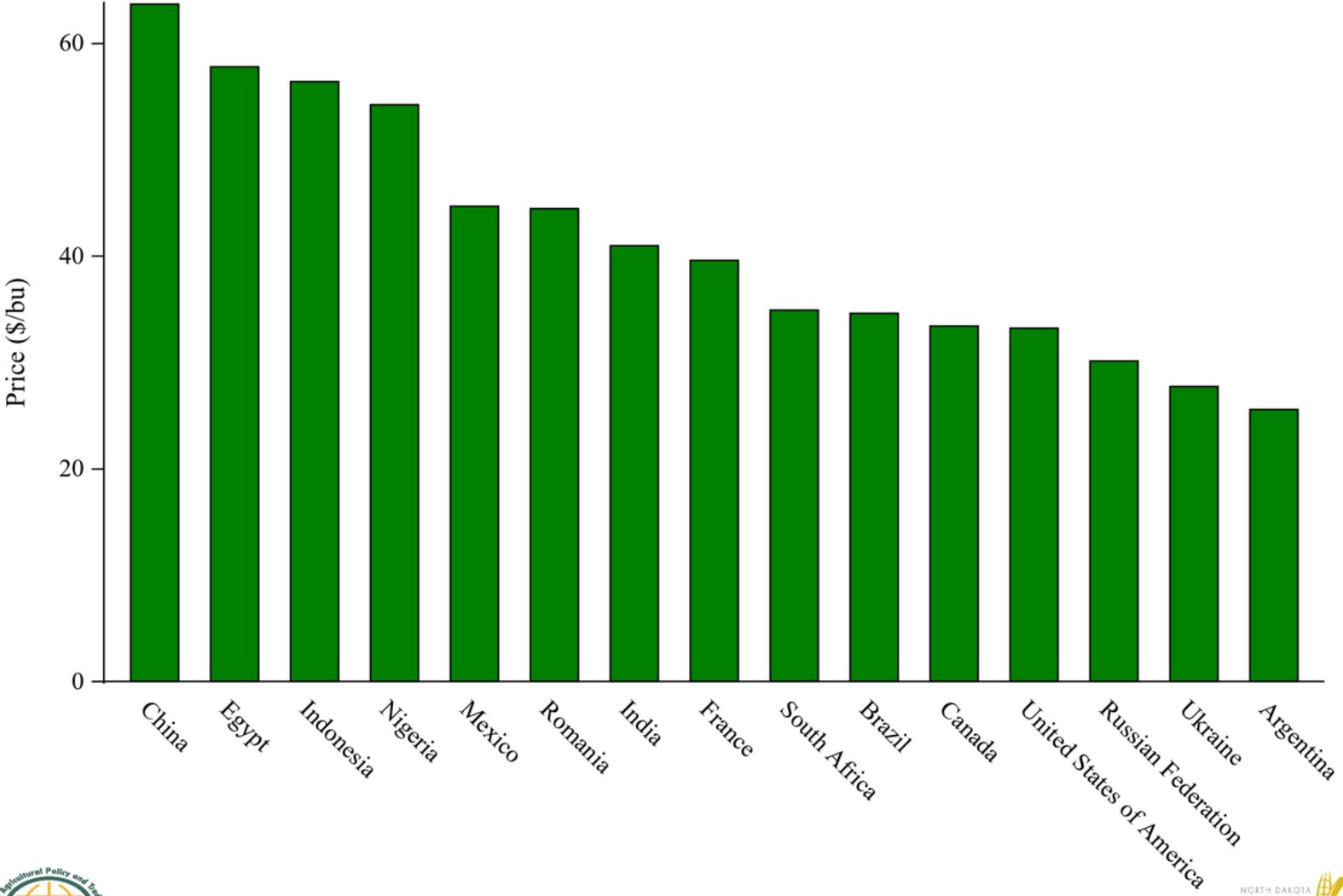


Table 30: Top 15 Countries Price, Descriptive Statistics for 2000 to 2009

Country	Price (\$/bu)			
	N	Mean	Risk	Coefficient of Variation
China	10	5.613	1.892	33.7
Romania	10	5.083	2.229	43.8
Egypt	10	4.865	1.388	28.5
Mexico	10	4.527	0.955	21.1
Italy	10	4.425	1.299	29.4
Indonesia	10	4.240	1.367	32.2
France	10	3.683	1.297	35.2
India	10	3.637	1.005	27.6
South Africa	10	3.478	1.057	30.4
Hungary	10	3.280	1.330	40.6
Brazil	10	3.202	1.108	34.6
Canada	10	3.062	0.833	27.2
United States of America	10	2.748	0.899	32.7
Ukraine	10	2.491	0.808	32.4
Argentina	10	2.390	0.574	24.0

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Figure 38: Top 15 Countries Price, 2010 to 2019



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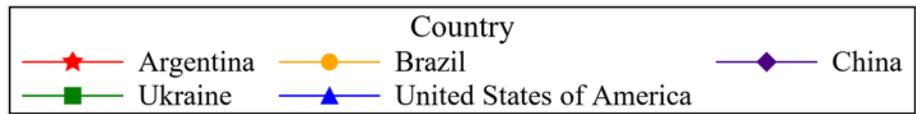
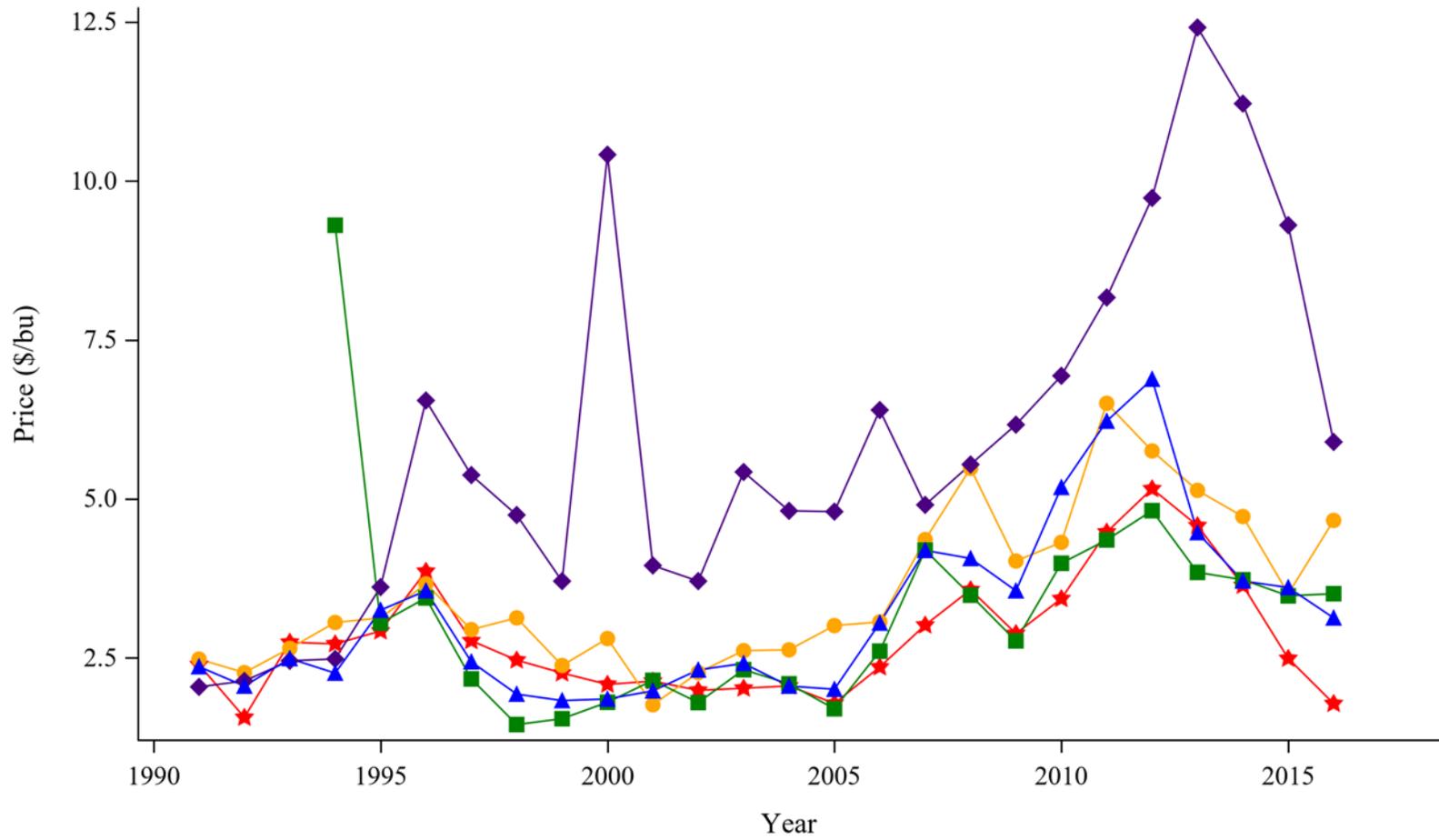


Table 31: Top 15 Countries Price, Descriptive Statistics for 2010 to 2019

Country	Price (\$/bu)			
	N	Mean	Risk	Coefficient of Variation
China	7	9.096	2.300	25.3
Egypt	7	8.255	0.817	9.9
Indonesia	7	8.055	0.856	10.6
Nigeria	7	7.745	2.018	26.1
Mexico	7	6.382	1.274	20.0
Romania	7	6.350	1.492	23.5
India	7	5.852	0.392	6.7
France	7	5.655	1.025	18.1
South Africa	7	4.986	0.857	17.2
Brazil	7	4.943	0.976	19.7
Canada	7	4.773	1.214	25.4
United States of America	7	4.744	1.415	29.8
Russian Federation	7	4.303	0.988	23.0
Ukraine	7	3.960	0.482	12.2
Argentina	7	3.652	1.205	33.0

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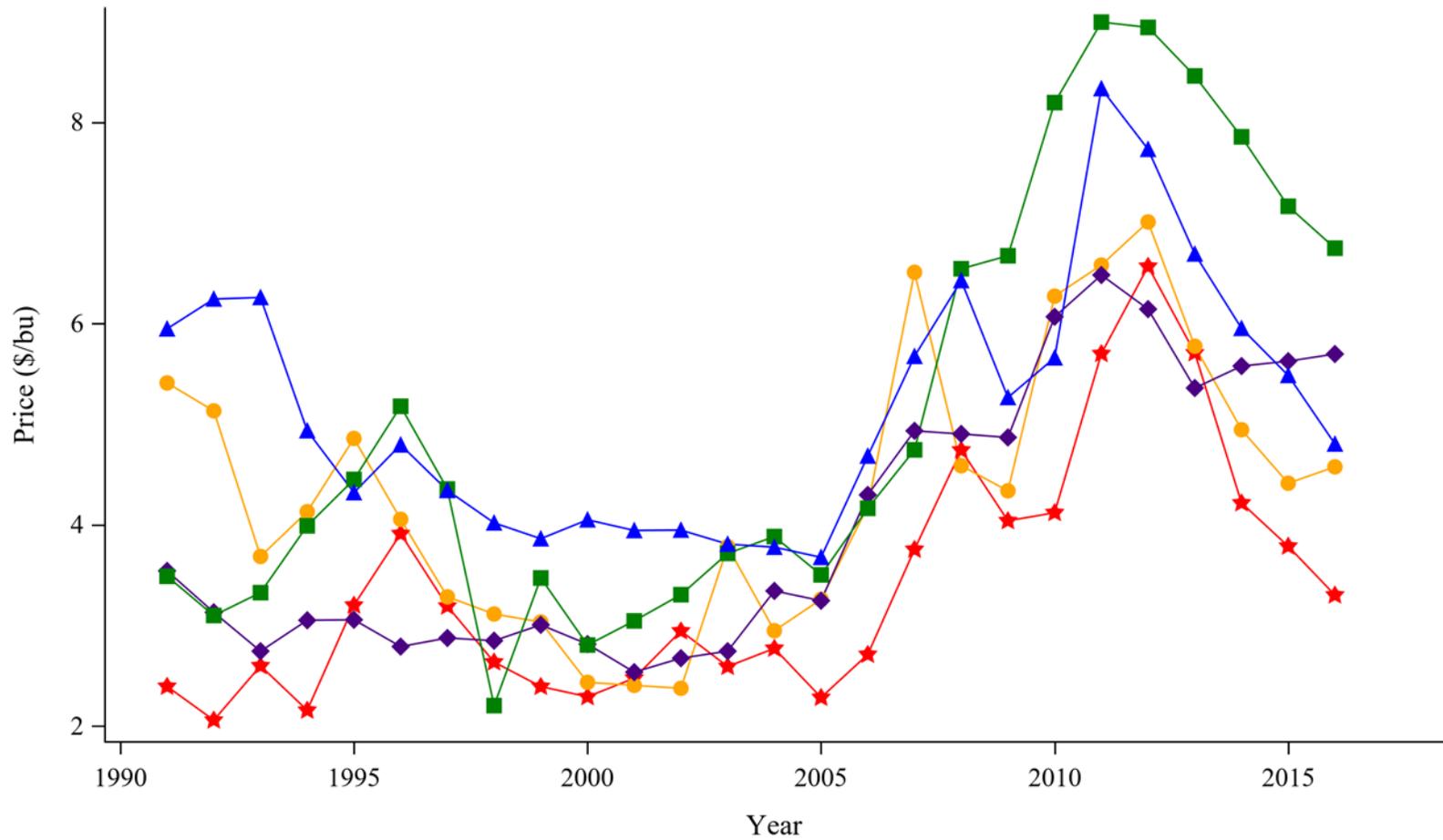
Figure 39: Top 5 Countries Price, Annual Trends



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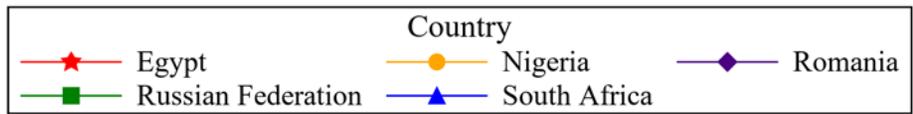
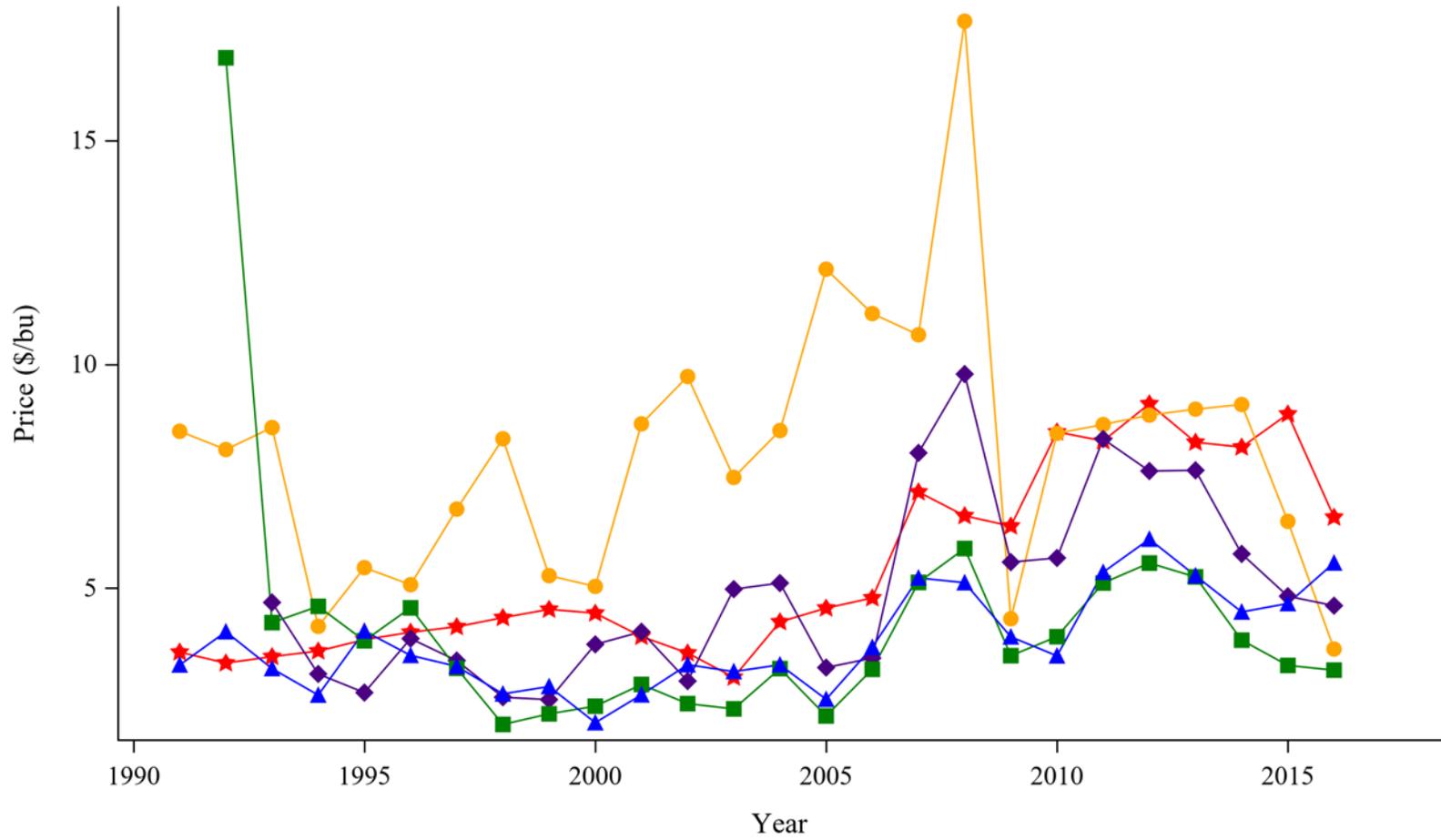
Figure 40: Top 6 to 10 Countries Price, Annual Trends



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Figure 41: Top 11 to 15 Countries Price, Annual Trends



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Table 32: Top 15 Countries Price, Annual Trends

	Price (\$ bu)						
Country	2010	2011	2012	2013	2014	2015	2016
United States of America	5.18	6.22	6.88	4.47	3.71	3.61	3.13
China	6.94	8.17	9.73	12.41	11.22	9.31	5.90
Brazil	4.32	6.50	5.76	5.13	4.72	3.51	4.66
Argentina	3.43	4.48	5.16	4.58	3.64	2.49	1.78
Ukraine	3.99	4.35	4.82	3.85	3.73	3.48	3.51
India	6.07	6.48	6.15	5.36	5.58	5.63	5.70
Mexico	5.66	8.34	7.73	6.69	5.95	5.49	4.80
Indonesia	8.20	9.00	8.95	8.46	7.86	7.17	6.75
France	6.27	6.58	7.01	5.78	4.95	4.41	4.58
Canada	4.12	5.70	6.57	5.71	4.22	3.79	3.30
South Africa	3.49	5.36	6.10	5.28	4.47	4.66	5.56
Romania	5.68	8.33	7.62	7.63	5.76	4.82	4.61
Russian Federation	3.92	5.12	5.56	5.25	3.84	3.27	3.17
Nigeria	8.46	8.66	8.87	9.00	9.10	6.49	3.64
Egypt	8.49	8.29	9.12	8.26	8.15	8.89	6.58

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